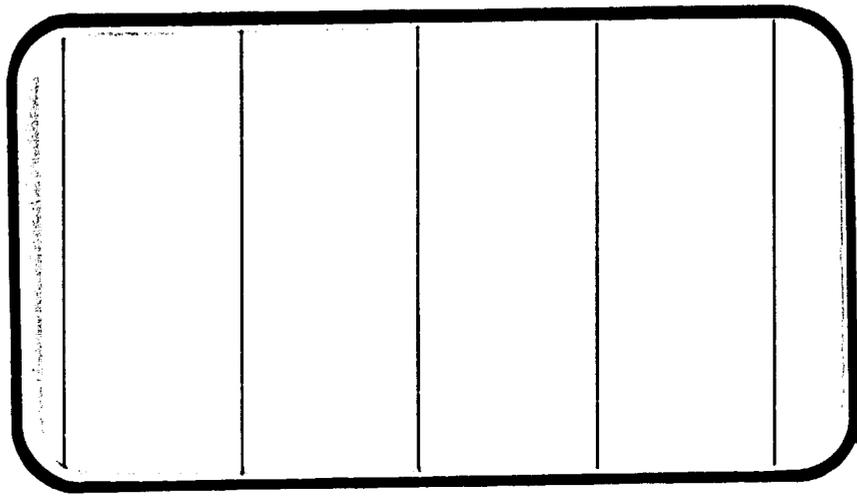




NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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(NASA-CR-134445) AIRLOADS INVESTIGATION OF AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 140A B LAUNCH CONFIGURATION (MODEL 47-OTS) IN THE ARC 11-FOOT UNITARY PLAN WIND TUNNEL FOR MACH RANGE 0.6 TO 1.4 (IA14A).

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SPACE SHUTTLE



AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER
HOUSTON, TEXAS

DATA Management services
SPACE DIVISION  CHRYSLER CORPORATION

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VOLUME 3 OF 11

AIRLOADS INVESTIGATION OF AN 'O.030-SCALE MODEL
OF THE SPACE SHUTTLE VEHICLE
140A/B LAUNCH CONFIGURATION (MODEL 47-OTS)
IN THE ARC 11-FOOT UNITARY
PLAN WIND TUNNEL FOR MACH RANGE 0.6 TO 1.4 (IA14A)

by

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Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Space Division

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL SPECIFICS:

Test Number: ARC 11-716
NASA Series No.: IA14A
Model Number: 47-OTS
Test Dates: 4 through 13 September 1973

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AIRLOADS INVESTIGATION OF AN 0.030-SCALE MODEL
OF THE SPACE SHUTTLE VEHICLE
140A/B LAUNCH CONFIGURATION (MODEL 47-OTS)
IN THE ARC 11-FOOT UNITARY
PLAN WIND TUNNEL FOR MACH RANGE 0.6 TO 1.4 (IA14A)
VOLUME 3

By R. L. Gillins, Rockwell International Space Division

ABSTRACT

This report presents results of tests conducted on an 0.030-scale launch configuration model of the Space Shuttle Vehicle 140A/B in the NASA/ARC 11-Foot Unitary Plan Wind Tunnel. Aerodynamic loads data were obtained at Mach numbers from 0.6 to 1.4.

Surface pressure distributions were obtained simultaneously with six-component stability and control force data on the complete launch configuration. The configuration consisted of the orbiter, an external tank, two solid rocket boosters, and associated intercomponent attach hardware. Angles of attack and sideslip from -10 degrees to +10 degrees were investigated. The tests, designated IA14A, were conducted from 4 September 1973 through 13 September 1973.

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INTRODUCTION

The 0.030-scale aero loads Space Shuttle Model was tested in the ARC Unitary Plan Wind Tunnels as follows:

IA14A	4 thru 13 Sept. 1973
IA14B	17 thru 19 Sept. 1973
OA22A	13 thru 14 Sept. 1973
OA22B	19 thru 20 Sept. 1973

For tests IA14B, OA22A, and OA22B, see reference 34, 35, and 36, respectively.

The testing was conducted in the 11-foot and the 9- by 7-foot tunnels of the ARC Unitary Plan Wind Tunnels. The IA14A/B tests were for the launch configurations at Mach numbers from 0.6 to 2.2. The OA22A/B tests were for the orbiter alone configuration at Mach numbers from 0.6 to 2.2. The effects of control surface deflections were also investigated in tests OA22A/B.

This report for test IA14A consists of one volume of force data and ten volumes of pressure data for a total of eleven volumes arrayed in the following manner:

Volume No.	Contents	Page
1.	IA14A force data	
2.	IA14A plotted pressure data	
3.	IA14A tabulated pressure data	
	(a) Orbiter fuselage (B)	1-725
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NOMENCLATURE
General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(P_1 - P_\infty)/q$
M	MACH	Mach number; V/a
P		pressure; N/m^2 , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2 , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3 , slugs/ft ³

Reference & C.G. Definitions

A _b		base area; m ² , ft ²
b	BREF	reference span; m, ft
c.g.		center of gravity
\bar{c}		reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

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NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(P_b - P_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

NOMENCLATURE (Continued)
Additions To Standard List

<u>Symbol</u>	<u>SADSAC Symbol</u>	<u>Definition</u>
$A()$		model base area, subscript is base orifice number and identifies location
C_{A_B}	CAB	model base axial-force coefficient
$C_p()$		model static pressure coefficient, subscript is orifice number, $[p() - p_\infty]/q$
C_{AU}	CA	axial-force coefficient, unadjusted
C_{AF}	CAF	forebody axial-force coefficient, C_{AU} adjusted for base terms
ET		external tank
IV		integrated vehicle, consists of orbiter, external tank, and two solid rocket motors
L_{REF}	LREF	reference length, inches
MRC		moment reference center
OMS		orbital maneuvering system
δ_e	ELEVON	elevon, surface deflection angle, positive deflection trailing edge down, degrees
δ_f	BDFLAP	orbiter body flap deflection angle, positive deflection angle is trailing edge down, degrees
δ_R	RUDDER	rudder, surface deflection angle, positive deflection trailing edge to the left, degrees
δ_{SB}	SPDBRK	speed brake deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{SB} = (\delta_{RL} + \delta_{RR})/2$, positive deflection, degrees
i_0	ORBINC	incidence angle between the orbiter and external tank, $i_0 = \alpha_0 - \alpha_T$, degrees

NOMENCLATURE (Continued)

β_T	BETAT	angle of sideslip of external tank, degrees
α_T	ALPHAT	angle of attack of external tank, degrees
l_B	LB	length of orbiter body, in
l_T	LT	length of external tank, in
l_S	LS	length of SRM booster, in
l_{NM}	LNM	length of OMS nozzle, positive direction forward of exit plane, in
l_{NP}	LNP	length of MPS nozzle, positive direction forward of exit plane, in
$b/2$	BW	wing semi-span, in
b_v	BV	vertical tail span, in
x	X	distance from component nose, in
y	Y	lateral distance from centerline, in
z	Z	vertical distance measured from W.L. 500 (vertical tail reference root chord), in
c_w	CW	local wing chord, in
c_v	CV	local vertical tail chord, in
x/l_B	X/LB	longitudinal position/orbiter body length
x/l_T	X/LT	longitudinal position/external tank length
x/l_S	X/LS	longitudinal position/booster length
x/l_{NM}	X/LNM	longitudinal position/OMS nozzle length

NOMENCLATURE (Concluded)

x/l_{NP}	X/LNP	longitudinal position/MPS nozzle length
x/c_w	X/CW	local chordwise position/local wing chord length
x/c_v	X/CV	local chordwise position/local vertical tail chord length.
η	Y/BW	local spanwise position/wing semi-span
η_v	Z/BV	local spanwise position/vertical tail span
x_{CP}/l	XCP/L	center of pressure distance from MRC, expressed as a fraction of body length
β_0	BETA0	angle of sideslip of orbiter
α_0	ALPHA0	angle of attack of orbiter

CONFIGURATIONS INVESTIGATED

The 0.030-scale Aero Loads Model, 47-OTS, was configured after the Shuttle Vehicle MCR 0200 Baseline R1, as defined in drawing number VL70-000088B. The orbiter configuration was a combination of the VL70-000140A orbiter and a VL70-000140B wing and midbody, from which the 140A/B designation was derived. The basic launch configuration consisted of the orbiter, an external tank with simulated fuel and vent lines, and two solid rocket boosters, designated $O_1 T_{12} S_{12} N_{25}$.

Three launch configurations were tested. One was the basic configuration described above mounted on a dual balance and sting arrangement, illustrated in figure 2d. A second contained attach hardware, designated AT_{10} , mating the orbiter with the external tank and mounted on a single sting and balance in the orbiter, illustrated in figure 2b. The third utilized a similar attach hardware configuration, designated AT_{11} , which was attached to the orbiter but not to the external tank and was mounted on the same dual sting and balance arrangement as the basic configuration (figure 2c). In all three configurations, the SRB-to-ET attach hardware was simulated at the forward attach location but not at the aft attach location. Model and component general arrangements are shown in figures 2e through 2o.

Component	Description
O_1	140A/B orbiter minus the main propulsion system nozzles
T_{12}	324-inch diameter external tank with ogive nose and external fuel and vent lines
S_{12}	142.3-inch diameter solid rocket boosters

N ₂₅	Nozzles for S ₁₂ boosters
AT ₁₀	Orbiter-to-ET attach hardware, fixed to both vehicles
AT ₁₁	Orbiter-to-ET attach hardware, fixed to orbiter only
LV	O ₁ T ₁₂ S ₁₂ N ₂₅
LVA	O ₁ T ₁₂ S ₁₂ N ₂₅ AT ₁₀
LVAP	O ₁ T ₁₂ S ₁₂ N ₂₅ AT ₁₁

The orbiter O₁, consisted of the following components:

B₂₆ C₉ F₈ M₇ N₂₈ V₈ R₅ W₁₁₆ E₂₆.

B ₂₆	Double delta wing fuselage, 140A/B
C ₉	Canopy, 140A
F ₈	Body flap, 140A
M ₇	OMS pods, 140A
N ₂₈	OMS nozzles, 140A
V ₈	Vertical tail, 140A
R ₅	Rudder, 140A
W ₁₁₆	Double delta wing, 140B
E ₂₆	Elevons, 140B

Parametric investigations were limited to angles of attack and side-slip with all orbiter control surfaces at 0° deflection.

INSTRUMENTATION DESCRIPTION

The left side of the orbiter and the external tank and the left hand SRB were extensively instrumented with pressure orifices for measurement of surface static pressure distributions. Additionally, there were clusters of orifices around inter-component attach structure locations on the right hand side of the orbiter and external tank. The orbiter contained 471 operational orifices, of which 83 were clustered around attach structure. The external tank contained 270 operational orifices, of which 127 were clustered around attach structure. The SRB contained 124 operational orifices. A three-tube total pressure rake was installed in the opening between the orbiter and external tank. Tables and sketches defining orifice locations are included in this report. All model pressures were measured by model mounted Scanivalve, Inc., S-type scanivalve modules - twelve in the orbiter, seven in the external tank, and five in the SRB.

Force instrumentation consisted of a six-component internal force balance in both the orbiter and external tank for the LV and LVAP configurations, and a single six-component internal force balance in the orbiter for the attached LVA configuration.

TEST FACILITY DESCRIPTION

The tests were conducted in the Ames 11- by 11-Foot Transonic Wind Tunnel which is a variable density, closed return, continuous flow type. This tunnel has an adjustable nozzle (two flexible walls) and a slotted test section to permit transonic testing over a Mach number range continuously variable from 0.4 to 1.4.

DATA REDUCTION

Data were reduced to coefficient form about body axes using the following reference constants:

$S_{REF} = 2.421 \text{ ft}^2$		reference area for force and moment coefficients
$l_{REF} = 38.709 \text{ in}$		reference length for moment coefficients
$A_1 = 0.07670 \text{ ft}^2$		Orbiter sting cavity
$A_2 = 0.21340 \text{ ft}^2$		Orbiter heat shield base
$A_3 = 0.08560 \text{ ft}^2$		Orbiter OMS base (2)
$A_4 =$ (see table below)		Orbiter speed brake base
$A_{501} = 0.07266 \text{ ft}^2$		Tank sting cavity
$A_{502} = 0.44264 \text{ ft}^2$		Tank base
$A_{801} = 0.19600 \text{ ft}^2$		SRM nozzle base (2)
$A_{802} = 0.16590 \text{ ft}^2$		SRM skirt base (2)
$\delta_{SB} =$	0 deg	$A_4 =$ 0 ft ²
	14.92	0.02327
	24.92	0.03866
	34.92	0.05370
	54.92	0.08252
	84.92	0.12083
$X_{MRP} = 0$	in	
$Y_{MRP} = 0$	in	
$Z_{MRP} = 9.99$	in	

D

The incidence angle between the orbiter and the external tank is equal to zero for angle of attack and angle of sideslip. Therefore, the angle of attack, ALPHA, used in the force plots is equal to ALPHA0. Also the angle of sideslip, BETA, used in the force plots is equal to BETA0.

The force and moment data recorded by the orbiter balance for configuration LV and LVAP are identified as RB10XX datasets. Force and moment data recorded by the tank balance for configuration LV and LVAP and by the orbiter balance for LVA (composite) are identified by RB11XX.

The pressure data were recorded for each component. The fourth character in each dataset identifier (i.e. RB1BXX, B for fuselage) represents the individual component. The following list indicates the symbol for each component.

SYMBOL	COMPONENT
B	Orbiter fuselage
C	Orbiter base
E	OMS nozzle
F	Body flap
M	OMS pod outside
L	Lower wing surface
U	Upper wing surface
R	Right vertical tail surface
V	Left vertical tail surface
S	SRM booster
T	External tank
X	SRM nozzle

SYMBOL

COMPONENT

Y	External tank base & SRM booster base
1	Orbiter attach points
2	External tank attach points
3	External tank base rake

REFERENCES

1. Orbiter - Lines and Configuration Control Drawings
2. VL70-000140A, Orbiter Configuration Control Drawing MCR 0200 Baseline
3. VL70-000143A, Lines Control, Vehicle 4 Forward Body - Cabin - Canopy MCR 0200 Baseline
4. VL70-000200, Lines Control, Midbody - Wing - Boot Fairing MCR 200 R3 dated 7-2-73
5. VL70-000145, Lines Control - Aft Body - OMS/RCS Pods, MCR 0200 - R1 baseline
6. VL70-000146A, Lines Control (Vehicle 4) Vertical Tail MCR 0200 Baseline
7. External Oxygen Hydrogen Tank (EOHT) - Lines and Configuration Control Drawings
8. VL78-000041B, External Tank - Configuration Control MCR 0200 Baseline R2
9. VL78-000024A, Structural Assy - External Tank MCR 0200 R2
10. VL78-000031A, Thermal Protection - External Tank, MCR 0200 Baseline
11. Solid Rocket Boosters (SRB) - Lines and Configuration Control Drawings
12. VL77-000036A, SRB Configuration Control MCR 0200 R1
13. VL77-000041, SRB Booster Assy, MCR 0200 R1
14. Integrated Vehicle - Lines and Configuration Control Drawings
15. VL72-000088A, Shuttle Configuration MCR 0200 Baseline R1
16. VL72-000089, SRB-ET-Orbiter Interface Disconnects MCR 0200 Baseline
17. VL72-000075, External Tank to SRB Attach Interface MCR 0074 Baseline
18. Aero Loads Model 47-OTS - Model Fabrication, Assembly and Installation Drawings

19. SS-A00119, Orbiter Assy - .030 Scale Pressure/Loads Model (140A/B Lines)
20. SS-A00120, Assy & Details - EOHT - .030 Scale Pressure/Loads Model (140A Lines)
21. SS-A00121, Orbiter/EOHT Attachments .030 Scale Pressure/Loads Model (140A Lines)
22. SS-A00122, Assy & Details - SRM - .030 Scale Pressure/Loads Model (140A Lines)
23. SS-A00123, Assy & Details - Forebody - .030 Scale Pressure/Loads Model (140A Lines)
24. SS-A00124, Assy & Details - Aft Fuselage - .030 Scale Pressure/Loads Model (140A Lines)
25. SS-A00125, Assy & Details - Wing Splice Plate & Cuff - .030 Scale Pressure/Loads Model (140A Lines)
26. SS-A00126, Assy & Details - Vertical Stabilizer - .030 Scale Pressure/Loads Model (140A Lines)
27. SS-A00127, Ames 11-ft x 11-ft Wind Tunnel Installation - .030 Scale Pressure/Loads Model (140A/F Lines)
28. SS-A00128, Ames 9-ft x 7-ft Wind Tunnel Installation - .030 Scale Pressure/Loads Model (140A/B Lines)
29. SS-A00130, Lines Control - Profile VL70-000140A - .030 Scale Pressure/Loads Model (140A/B Lines)
30. W-1104S Sting - Ames MK II 4" Balance (Male End), Ames MK XX 2.5" Balance
31. W-1105S, Sting - Ames MK II 4" Balance (Male End), RI MK I 2.75 Balance
32. W-1106A, Adapter - Ames MK II, 4" Balance (Male & Female)
33. W-1107A, 13.5° Bent Sting Adapter Ames MK II 4" Balance (Male & Female)

34. (DMS-DR-2129), "Airloads Investigation of an 0.030-Scale Model of the Space Shuttle Vehicle 140A/B Launch Configuration (Model 47-OTS) in the ARC 9- by 7-foot Unitary Plan Wind Tunnel for Mach Range 1.55 and 2.2 (IA14B)"
35. (DMS-DR-2130), "Airloads Investigation of an 0.030-Scale Model of the Space Shuttle Vehicle 140A/B Orbiter Configuration (Model 47-0) in the ARC 11-foot Unitary Plan Wind Tunnel for Mach Range 0.6 and 0.9 (OA22A)"
36. (DMS-DR-2131), "Airloads Investigation of an 0.030-Scale Model of the Space Shuttle Vehicle 140A/B Orbiter Configuration (Model 47-0) in the ARC 9- by 7-foot Unitary Plan Wind Tunnel for Mach Range 1.55 and 2.2 (OA22B)"

TABLE I.

TEST : IA-14A		DATE : 9-13-73		
TEST CONDITIONS				
MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. ft.)	STAGNATION TEMPERATURE (degrees Fahrenheit)	
0.60	4.0×10^6	480	120	
0.75	3.75×10^6	540	120	
0.85	3.5×10^6	550	120	
0.90	3.5×10^6	580	120	
0.95	3.25×10^6	610	120	
0.975	3.0×10^6	530	120	
1.00	3.0×10^6	535	120	
1.025	3.0×10^6	540	120	
1.05	3.0×10^6	545	120	
1.10	3.0×10^6	550	120	
1.15	3.0×10^6	575	120	
1.25	2.75×10^6	540	120	
1.40	2.75×10^6	570	120	
BALANCE UTILIZED: LVA: 2.5-in MK XX (ORBITER) LVAP: 2.5-in MK XX (ORB.), 2.75-in MK I (ET)				
	CAPACITY:		ACCURACY:	COEFFICIENT TOLERANCE:
	MK XX	MK I	MK XX	MK I
NF	6000	7500		
SF	3000	3750	0.2%	0.2%
AF	600	700	0.2%	0.2%
PM				
RM	4000	4000	0.2%	0.2%
YM				
COMMENTS: Test conditions for LVA and LVAP model configurations				

TABLE I. - Concluded.

TEST : IA-14A		DATE : 9-13-73	
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. ft)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	4.0×10^6	480	120
0.75	4.25×10^6	610	120
0.85	4.5×10^6	710	120
0.90	4.5×10^6	750	120
0.95	4.5×10^6	780	120
0.975	4.25×10^6	750	120
1.05	4.25×10^6	790	120
1.10	4.0×10^6	760	120
1.15	3.75×10^6	720	120
1.25	2.75×10^6	735	120
1.40	3.0×10^6	620	120
BALANCE UTILIZED: <u>2.5-in MK XX (ORB.), 2.75-in MK I (ET)</u>			
	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
	MK XX MK I	MK XX MK I	
NF	<u>6000</u> <u>7500</u>	<u>0.2%</u> <u>0.2%</u>	_____
SF	<u>3000</u> <u>3750</u>	<u>0.2%</u> <u>0.2%</u>	_____
AF	<u>600</u> <u>700</u>	<u>0.2%</u> <u>0.2%</u>	_____
PM	_____ _____	_____ _____	_____
RM	<u>4000</u> <u>4000</u>	<u>0.2%</u> <u>0.2%</u>	_____
YM	_____ _____	_____ _____	_____
COMMENTS: Test conditions for LV model config.			

TABLE II

TEST: IA 4A		DATA SET/RUN NUMBER COLLATION SUMMARY											DATE: 13 Sept 1973								
DATA SET IDENTIFIER	CONFIGURATION	SCHD.			CONTROL DEFLECTION			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)												
		a	b	c	δ ₁	δ ₂	δ ₃		0.9	0.975	1.1	1.25									
RB1 17	01+T12+S12+N25+AT11	0	0	0	0	0	0	40	93	92	89										
18	↓ +AT11	0	0	0	0	0	0	41	94	91	90										
24	01+T12+S12+N25+AT10	0	0	0	0	0	0	8*													
25		0	0	0	0	0	0	9*													
26		0	0	0	0	0	0	10*													
27		0	0	0	0	0	0	11*													
28		0	0	0	0	0	0		38												
29		0	0	0	0	0	0		39*												
Y 30	01+T12+S12+N25+AT11	0	0	0	0	0	0					D/62									

TEST RUN NUMBERS	7	13	19	25	31	37	43	49	55	61	67	75	76
SCHEDULES	RM	CA											
COEFFICIENTS													
α(B)	= β(B) = -8, -4, 0, 4, 8												
β(Y)	= -10, -8, -6, -4, -2, 0												
MACH(D)	= 0.975, 1.0, 1.1, 1.25												

* FORCE DATA NOT AVAILABLE.

TABLE II - Continued

TEST: I A14A		DATA SET/RUN NUMBER COLLATION SUMMARY												DATE: 12 Sept 1975				
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES			NO. OF RUNS	HL-PAH (OR ALTERNATE INDEPENDENT VARIABLE)										
		A	B	M	S _e	S _r		ΔS _e	ΔS _r	0	-10	-8	-6	-4	-2	2	4	6
RBI x 31	φ ₁ +T ₁₂ +S ₁₂ N ₂₅ +AT ₁₀			.9	C	C	0	1*	2*	3*	4*	5*	6*	7	12	13	14	15
32				1.1				16*	17*	18*	19*	20	21	22	23	24	25	26
33				1.25				27*	28*	29*	30*	31	32	33	34	35	36	37
34	+AT ₁₁			1.40					47	48	49			50			51	
35				.75					56	55	54			53			52	
36				1.85					42	43	44			45			46	
37				.95					57	58	59			60			61	
38				1.05					63	64	65			66			67	
39				1.15					68	69	70			71			72	
40				1.4					84	85	86			87			88	
41				1.60					149	148	147			146			145	
42				.75					140	141	142			143			144	
43				1.85					135	136	137			138			139	
44				.70					130	131	132			133			134	
45				.75					125	126	127			128			129	
46				1.15					120	121	122			123			124	
47				1.35					115	116	117			118			119	
48				1.10					110	111	112			113			114	
7																		
13																		
19																		
25																		
31																		
37																		
43																		
49																		
55																		
61																		
67																		
75.76																		

α OR β SCHEDULES
 β(A) = -10 to +10, 2 COEFFICIENTS
 β(B) = -8, -4, 0, 4, 8

* FORCE DATA NOT AVAILABLE.

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT₁₀

GENERAL DESCRIPTION: Attach structure for Integrated Vehicle Configuration

4 per VL72-000088B and VL72-000089, modified as follows: removed

ET-to-SRM aft attach struts (4) and left orbiter to right ET aft

attach crossover rod.

MODEL SCALE: 0.030

DRAWING NO.: SEE DESCRIPTION

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
FORWARD ATTACH		
Orbiter to Tank		
Number of struts	<u>2</u>	<u>2</u>
Diameter - In.	<u>6.000</u>	<u>0.180</u>
Location - In.		
X _O	<u>382.000</u>	<u>11.460</u>
X _T	<u>1078.000</u>	<u>32.340</u>
DRAG LINK ATTACH		
Orbiter to Tank		
Number of struts	<u>2</u>	<u>2</u>
Diameter, In.	<u>15.000</u>	<u>0.450</u>
Location, In.		
X _O	<u>1307.000</u>	<u>39.210</u>
X _T	<u>1859.000</u>	<u>55.770</u>
AFT ATTACH		
Orbiter to Tank		
Number of struts	<u>2</u>	<u>2</u>
Diameter - In.	<u>12.000</u>	<u>0.360</u>
Location - In.		
X _O	<u>1307.000</u>	<u>39.210</u>
X _T	<u>2058.000</u>	<u>61.740</u>
CROSSOVER ROD (RIGHT ORBITER TO LEFT ET)		
Diameter, In.	<u>8.000</u>	<u>0.240</u>
Location - In.		
X _O	<u>1307.000</u>	<u>39.210</u>
X _T	<u>2058.000</u>	<u>61.740</u>

TABLE III. - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT₁₁

GENERAL DESCRIPTION: Attach structure, same as AT₁₀ except the forward attach struts are rotated to the vertical, and the structure extends from the orbiter but is not attached to the tank.

MODEL SCALE: 0.030

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
FORWARD ATTACH		
Orbiter to Tank		
Location - In.		
X_O	<u>382.000</u>	<u>11.460</u>
X_T	<u>1133.000</u>	<u>33.990</u>
Clearance, tank to strut - In.	<u>16.667</u>	<u>0.500</u>
DRAG LINK ATTACH		
Orbiter to Tank		
Clearance, tank to strut - In.	<u>8.333</u>	<u>0.250</u>
AFT ATTACH		
Orbiter to Tank		
Clearance, Tank to strut - In.	<u>8.333</u>	<u>0.250</u>
Crossover Rod		
Clearance, tank to strut - In.	<u>8.333</u>	<u>0.250</u>

TABLE III. - Continued.

MODEL COMPONENT: BODY - B₂₆

GENERAL DESCRIPTION: Orbiter Fuselage Configuration 140 A/B

NOTE: B₂₆ identical to B₂₄ except underside of fuselage refaired to accept W₁₁₆.

Model Scale = .030

DRAWING NUMBER: VL70-000193
VL70-000140A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length (Body Fwd Sta X ₀ = 238) - in.	<u>1293.3</u>	<u>38.799</u>
Max. Width (at X ₀ = 1520) - in.	<u>262.0</u>	<u>7.860</u>
Max. Depth (at X ₀ = 1464) - in.	<u>250.0</u>	<u>7.500</u>
Fineness Ratio	<u>0.26357</u>	<u>0.26357</u>
Area - ft ²		
Max. Cross-Sectional	<u>340.88462</u>	<u>0.30679</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

MODEL COMPONENT: CANOPY - C9

GENERAL DESCRIPTION: Configuration 3A

Model Scale = .030

DRAWING NUMBER

VL70-000140A
VL70-000143A

DIMENSION:

FULL SCALE

MODEL SCALE

Length ($X_o=434.643$ to 670)

235.357

7.06071

Max Width ($\odot X_o=513.227$)

152.412

4.57236

Max Depth ($\odot X_o=485.0$)

25.000

0.75000

Fineness Ratio

Area

Max Cross-Sectional

Planform

Wetted

Base

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TABLE III. - Continued.

MODEL COMPONENT: ELEVON - E26

GENERAL DESCRIPTION: Configuration 4

NOTE: VL70-000400 data for (1) of (2) sides. Identical to E25 except
airfoil thickness

Model Scale = .030

DRAWING NUMBER: VL70-000200
VL70-000140 B

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>223.5814</u>	<u>0.20122</u>
Span (equivalent)	<u>368.34</u>	<u>11.05020</u>
Inb'd equivalent chord	<u>119.623</u>	<u>3.58869</u>
Outb'd equivalent chord	<u>55.1922</u>	<u>1.65577</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>-10.056</u>	<u>-10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line)	<u>851.1502</u>	<u>0.76604</u>

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TABLE III. - Continued.

MODEL COMPONENT: Body Flap - F_R

GENERAL DESCRIPTION: Configuration 4

Model Scale - .030
 DRAWING NUMBER VL70-000140B, VL70-000200

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length in.	<u>84.7</u>	<u>2.541</u>
Max Width in.	<u>262.308</u>	<u>7.86924</u>
Max Depth in.	<u>23.000</u>	<u>0.69000</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - ft ²		
Max Cross-Sectional		
Planform	<u>158.85350</u>	<u>0.14297</u>
Wetted	<u> </u>	<u> </u>
Base	<u>41.89642</u>	<u>0.03771</u>

TABLE III. - Continued.

MODEL COMPONENT: OMS POD - M7

GENERAL DESCRIPTION: Configuration 3A

Model Scale = .030

DRAWING NUMBER VL70-000140A
VL70-000145

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (OMS Fwd Sta $X_0=1233.0$) - IN.	<u>327.000</u>	<u>9.810</u>
Max Width (@ $X_0=1450.0$) - IN.	<u>94.5</u>	<u>2.8350</u>
Max Depth (@ $X_0=1493.0$) - IN.	<u>109.000</u>	<u>3.270</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

MODEL COMPONENT: BSRM NOZZLES - N25

GENERAL DESCRIPTION: Configuration 3A BSRM Nozzles

Model Scale = .030

DRAWING NO. VL72-000028A
VL77-000036A

DIMENSIONS	FULL-SCALE	MODEL SCALE	
MACH NO. _____			
DIAMETER DEX ~ IN (One Nozzle)	<u>141.3</u>	<u>4.2390</u>	
DIAMETER DT ~ IN	_____	_____	
DIAMETER DIN ~ IN	_____	_____	
ON ~ DEGREES	_____	_____	
AREA - FT ² (One Nozzle)			
MAX CROSS-SECTIONAL	<u>108.89595</u>	<u>0.09801</u>	
GIMBAL ORIGIN	<u>X_o</u>	<u>Y_o</u>	<u>Z_o</u>
LEFT NOZZLE ~ IN. F.S.	<u>1825.3</u>	<u>-243</u>	<u>400</u>
RIGHT NOZZLE ~ IN. FS	<u>1825.3</u>	<u>+243</u>	<u>400</u>
NULL POSITION - DEG.	<u>PITCH</u>	<u>YAW</u>	
LEFT NOZZLE	<u>+8</u>	<u>+8</u>	
RIGHT NOZZLE	<u>+8</u>	<u>+8</u>	

TABLE III. - Continued.

MODEL COMPONENT: NOZZLES - N28

GENERAL DESCRIPTION: Configuration 3A OMS Nozzle

Model Scale = .030

DRAWING NO. VL70-000140A

DIMENSIONS	FULL-SCALE	MODEL SCALE
MACH NO. _____		
DIAMETER DEX ~ IN (One nozzle)	_____	_____
DIAMETER DT ~ IN	_____	_____
DIAMETER DIN ~ IN	_____	_____
ON ~ DEGREES	_____	_____
AREA - Ft ² (one nozzle)		
MAX CROSS-SECTIONAL	_____	_____
GIMBAL ORIGIN	<u>X₀</u>	<u>Y₀</u> <u>Z₀</u>
LEFT NOZZLE ~ IN.	<u>1518.0</u>	<u>-88.0</u> <u>492.0</u>
RIGHT NOZZLE ~ IN.	<u>1518.0</u>	<u>+88.0</u> <u>492.0</u>
NULL POSITION:	<u>PITCH</u>	<u>YAW</u>
LEFT NOZZLE (Null Pitch 15°49'; Yaw 12°17' OUTB'D)	<u>±8°</u>	<u>13°17' OUTB'D</u> <u>2°30' INB'D</u>
RIGHT NOZZLE (Null Pitch 15°49'; Yaw 12°17' OUTB'D)	<u>±8°</u>	<u>13°17' OUTB'D</u> <u>2°17' INB'D</u>

TABLE III. - Continued.

MODEL COMPONENT: BUDDER - R5

GENERAL DESCRIPTION: 2A, 3 and 3A Configuration per Rockwell Lines

VL70-000095

Model Scale = .030

DRAWING NUMBER: VL70-000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - FT ²	<u>106.38</u>	<u>0.09574</u>
Span (equivalent) - IN.	<u>201.0</u>	<u>6.0300</u>
Inb'd equivalent chord	<u>91.585</u>	<u>2.74755</u>
Outb'd equivalent chord	<u>50.833</u>	<u>1.52499</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Tailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hinge line)- FT ³	<u>526.13</u>	<u>0.01420</u>
Product of Area and Mean Chord		

TABLE III. - Continued.

MODEL COMPONENT: BOOSTER SOLID ROCKET MOTOR - S₁₂

GENERAL DESCRIPTION: Configuration 3A, Data for (1) of (2) sides,
per Rockwell Lines VL77-000036A

Model Scale = .030

DRAWING NUMBER VL72-000088A
VL77-000036A

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (Includes Nozzle) - IN.	<u>1741.0</u>	<u>52.2300</u>
Max Width (Tank Dia) - IN.	<u>142.3</u>	<u>4.2690</u>
Max Depth (Aft Shroud) - IN.	<u>192.0</u>	<u>5.7600</u>
Fineness Ratio	<u>9.06771</u>	<u>9.06771</u>
Area - FT ²		
Max Cross-Sectional	<u>201.06193</u>	<u>0.18096</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
WP of BSRM Centerline (Z _T) - IN.	<u>400</u>	<u>12.000</u>
FS of BSRM Nose (X _T) - IN.	<u>200</u>	<u>6.000</u>

TABLE III. - Continued.

MODEL COMPONENT: EXTERNAL TANK - T12

GENERAL DESCRIPTION: External Oxygen Hydrogen Tank

NOTE: Identical to T11 with external fuel lines added

Model Scale = 030

DRAWING NUMBER

VL78-000031A
VL78-000041A

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - IN. (Nose @ $X_T = 309$)	<u>1865</u>	<u>57.629</u>
Max Width (Dia) - IN.	<u>324</u>	<u>9.72</u>
Max Depth	<u> </u>	<u> </u>
Fineness Ratio	<u>5.75617</u>	<u>5.75617</u>
Area - FT ²		
Max Cross-Sectional	<u>572.555</u>	<u>17.177</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
WP of Tank Centerline (X_T) - IN.	<u>400.0</u>	<u> </u>

TABLE III. - Continued.

MODEL COMPONENT: VERTICAL - V₈

GENERAL DESCRIPTION: Configuration 3A

NOTE: Similar to V5 with radius on TE upper corner and LE lower corner
where vertical meets fuselage.

Model Scale = .030

DRAWING NUMBER: VL70-000140A
VL70-000146A

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

Area (Theo) Ft ²	<u>413.253</u>	<u>0.37193</u>
Planform		
Span (Theo) In	<u>315.720</u>	<u>9.47160</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.40399</u>	<u>0.40399</u>
Sweep Back Angles, degrees		
Leading Edge	<u>45.00</u>	<u>45.00</u>
Trailing Edge	<u>25.947</u>	<u>25.947</u>
0.25 Element Line	<u>41.130</u>	<u>41.1300</u>
Chords:		
Root (Theo) WP	<u>268.500</u>	<u>8.05500</u>
Tip (Theo) WP	<u>108.470</u>	<u>3.25410</u>
MAC	<u>199.80756</u>	<u>5.99423</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>43.9050</u>
W. P. of .25 MAC	<u>635.522</u>	<u>19.06566</u>
B. L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle Deg	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle Deg	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius (Min) - IN.	<u>2.00</u>	<u>0.060</u>
Void Area	<u>13.17</u>	<u>0.01185</u>
Blanketed Area	<u>0.00</u>	<u>0.00</u>

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TABLE III. - Concluded.

MODEL COMPONENT: WING-W116

GENERAL DESCRIPTION: Configuration 4

NOTE: Identical to W114 except airfoil thickness. Dihedral angle is along trailing edge of wing.

Model Scale = .030

TEST NO.

DIMENSIONS:

DWG. NO. VL70-000140B
VL70-000200

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft²

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees (at $X_0=1506.623, Y_0=$

Incidence Angle, degrees $105, Z_0=282.75$)

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATA

Area (theo) Ft²

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip $1.00 \frac{b}{z}$

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)

XXXX-64

Root $\frac{b}{z} = 0.425$

Tip $\frac{b}{z} = 1.00$

Data for (1) of (2) Sides

Leading Edge Cuff Ft²

Planform Area

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

2690.00

936.6816

2.265

1.177

0.200

3.500

0.500

+3.000

45.00

-10.056

35.209

689.2429

137.8486

474.8117

1126.721

291.00

187.33491

1812.2205

736.6816

2.058

0.2451

570.6230

137.8512

354.2376

1164.237

292.00

239.67786

0.113

0.12

118.333

505.0

1003.5

2.4210

28.10045

2.265

1.177

0.200

3.500

0.500

+3.000

45.00

-10.056

35.209

20.67729

4.13546

14.24435

33.80163

8.73000

5.62005

1.63010

22.10045

2.058

0.2451

17.11869

4.13554

10.62713

34.92711

8.76000

7.19034

0.113

0.12

0.10650

15.15000

30.10500

TABLE IV. - ORBITER FUSELAGE PRESSURE ORIFICE LOCATIONS

ORBITER X ₀ IN.		RADIAL LOCATION Ø DEGREES																		
FULL	MODEL X ₀ /I ₀	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180
235	7.05	0																		
245	7.35	.008	6				8			16			17							9
265	7.95	.023	7	12	13	14	15			25			26							13
295	8.85	.047	10	21	22	23	24			34			35							27
325	9.75	.070	19	30	31	32	33			43			44							36
380	11.40	.112	28	39	40	41	42			53				54					46	45
440	13.20	.159	37	48	49	50	51	52		65		66		57						56
450	13.50	.167	47	60	61	62	63	64		74					58		68			69
465	13.95	.178	59	70	71		72	73		82							76			77
500	15.00	.205	70	79			80	81		90							84			85
560	16.80	.252	78	87			88	89		98							92			93
625	18.75	.301	86	95			96	97		108							100			101
725	21.75	.379	94	103						116										
880	26.40	.499	102	105			106	107		124										
980	29.40	.576	104	113			114	115		134										
1080	32.40	.653	112	120			121	122	123	143										
1180	35.40	.730	119	130			131	132	133	143	125									
1245	37.35	.781	129	139			140	141	142	152										
1300	39.00	.823	138	148			149	150	151	161										
1375	41.25	.882	147	157			158	159	160	166										
1430	42.90	.923	156							167										
1480	44.40	.963	156							168										
1530	45.90	1.002	169																	
1530	45.90	1.002	170																	
1555	46.65	1.021	171	170																
1590	47.70	1.048	171	172																
1590	47.70	1.048	173	174																

l₀ = 1293.3 full scale a: OMS pod, inside c: Body flap lower surface
 l₀ = 38.799 model b: OMS pod, outside d: Body flap upper surface

data in datasets RBIBXX

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TABLE VI. - ORBITER VERTICAL TAIL PRESSURE ORIFICE LOCATIONS

ORBITER VERTICAL TAIL

VERTICAL $W_L \sim Z_0$		X/C _v									
FULL	MODEL	η_V	0	.025	.05	.15	.30	.52	.685	.775	.90
550	16.50	.158	316	317	318	319	320	321	322	323	
			RH		324	325	326	327	328	329	
			LE								
			LH								
600	18.00	.316	330	331	332	333	334	335	336	337	338
			RH		339	340	341	342	343	344	345
			LE								
			LH								
690	20.70	.600	346	347	348	349	350	351	352	353	354
			RH		355	356	357	358	359	360	361
			LE								
			LH								
765	22.95	.840	362	363	364	365	366	367	368	369	370
			RH		371	372	373	374	375	376	377
			LE								
			LH								
792	23.76	.925	378	379	380	381	382	383	384	385	386
			RH		387	388	389	390	391	392	393
			LE								
			LH								

data in datasets RB1VXX (left side) and RB1RXX (right side)

TABLE VII. - ORBITER BASE, BODYFLAP, AND OMS NOZZLE PRESSURE ORIFICE LOCATIONS

ORBITER BASE

LOCATION	ORIFICE NUMBER
Orbiter Sting Cavity	1
Orbiter Base (Lower Left Corner)	2
OMS Nozzle Base	3

data in datasets RB1CXX

RUDDER FLARE BASE

RUDDER $W_L \sim Z_0$		X/C_V
FULL	MODEL	.75
725	18.75	4
625	21.75	5

data in datasets RB1CXX

BODY FLAP

ORBITER $\sim X_0$		$\phi \sim \text{Deg}$	
FULL	MODEL	0	40
1555	46.65	169	170
1590	47.70	173	174
1590	47.70	171	172

data in datasets RB1FXX

LEFT OMS NOZZLE SURFACE

$X \sim \text{IN. FWD. NOZZLE EXIT}$		$\phi \sim \text{DEG.}$		
FULL	MODEL	135	180	225
10	.30	175	176	177
20	.60		178	

data in datasets RB1EXX

TABLE VIII. - EXTERNAL TANK PRESSURE ORIFICE LOCATIONS

EXTERNAL TANK

TANK STATION $\sim X_T$		$\theta \sim \text{DEG.}$										
FULL SCALE	MODEL SCALE	X_T / X_T	0	30	60	90	120	135	150	165	180	270
309	9.27	0	503									
324	9.72	.008	504								506	
400	12.00	.049	508	509	510	505	512		513		514	
520	15.60	.113	515	516	517	518	519		520	521	522	
640	19.20	.178	523	524	525	526	527		528	529	530	
670	20.10	.194	531	532	533	534	535		536	537	538	
710	21.30	.215	539	540	541	542	543		544	545	546	
760	22.80	.242	547	548	549	550	551	552	553	554	555	
850	25.50	.290	556	557	558	559	560	569	561	562	563	564
950	28.50	.344	565	566	567	568	568		570	571	572	
1050	31.30	.394	573	574	575	576	577	586	578	579	580	
1150	34.50	.451	581	582	583	584	585		587	588	589	
1250	37.50	.505	590	591	592	593	594		596	596	597	
1350	40.50	.558	598	599	600	601	602	603	604	605	606	
1500	45.00	.638	607	608	609	610	611		612	613	614	
1700	51.00	.746	615	616	617	618	619	620	621	622	623	
1900	57.00	.853	624	625	626	627	628	629	630	631	632	
2040	61.20	.928	633	634	635		636	637	638	639	640	
TANK BASE			501									
STING CAVITY												

$X_T = 1865 \text{ IN. FULL SCALE}$
 $55.950 \text{ IN. MODEL SCALE}$

data in datasets RBITXX

TABLE IX. - SRM PRESSURE ORIFICE LOCATIONS

LEFT SRM

SRM STATION ~ X _s		θ ~ DEG.									
FULL SCALE	MODEL SCALE	X _s X _s	0	45	90	135	180	225	270	315	
200	6.00	0	805								
260	7.80	.034	806	807	808	809	810	811	812	813	
370	11.10	.098	814	815	816	817	818	819	820	821	
400	12.00	.115	822	823	824	825	826	827	828	828	
450	13.50	.144	829	830	831	832	833	834	835	836	
550	16.50	.201	837	838	839	840	841	842	843	844	
700	21.00	.287	845		846		847	848	849	850	
850	25.50	.373	851		852		853		854		
1050	31.50	.488	855		856		857				
1250	37.50	.603	858		859		860				
1450	43.50	.718	861		862		863		864		
1650	49.50	.833	865		866		867		868		
1750	52.50	.990	869	870	871	872	873	874	875	876	
1796	53.88	.917	877	878	879	880	881	882	883	884	
1835	55.05	.939	885	886	887	888	889	890	891	892	
1868	56.04	.958	893	894	895	896	897	898	899	900	
	SKIRT BASE		802								
	NOZZLE BASE		801								
NOZZLE EXTERNAL PRESSURES											
1850	55.50	.948	901	902	903	904	905	906	907	908	
1905	57.15	.979	909	910	911	912	913	914	915	916	
1928	57.84	.993	917	918	919	920	921	922	923	924	

p_s = 1741 IN. FULL SCALE
52.53 IN. MODEL SCALE

data in datasets RB1SXX

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TABLE X. - ORBITER ATTACH POINT PRESSURE ORIFICE LOCATIONS

ORBITER ATTACH POINT ORIFICE LOCATIONS																	
	FULL	347	357	367	377	387	397	407	1252	1262	1272	1282	1292	1302	1312	1322	1332
X_o	SCALE	10.41	10.71	11.01	11.31	11.61	11.91	12.21	37.56	37.86	38.16	38.46	38.76	39.06	39.36	39.96	40.26
X_o	MODEL	.087	.095	.102	.110	.118	.126	.133	.788	.796	.804	.811	.819	.827	.835	.850	.858
X_o/k_o																	
η	F.S. MODEL	394	397					412				436	447		468	474	480
Y_o	Y_o							415				435	446	457	467	473	479
.021	10	.50	396	399	403	407	411	415				434	445	456	466	472	478
.043	20	.60	395	398	402	406	410	414				433	444	455	465	471	477
.064	30	.90			401	405	409	413				432	443	454	464	470	476
.085	40	1.20															
.107	50	1.50														469	475
.149	69.75	2.09										431	442	453	463		
.170	79.75	2.39								424		430	441	452	462		
.192	89.75	2.69								419	423	429	440	451	461		
.213	99.75	2.99							416	418	422	428					
.234	109.75	3.29								417	421	427	439	450	460		
.256	119.75	3.59									420	426	438	449	459		
.277	129.75	3.89										425	437	448	458		

data in datasets RB11XX

TABLE XI. - EXTERNAL TANK ATTACH POINT PRESSURE ORIFICE LOCATIONS

X_T Full Scale	1103	1093	1083	1073	1063	1053	1043	
X_T Model Scale	33.09	32.79	32.49	32.19	31.89	31.59	31.29	
X_T/l_T	.424	.419	.413	.408	.402	.397	.391	
								ϕ DEG.
FWD ATTACH POINT (ORBITER TO E-T)	684	676	668	660				182.84
	685	677	669	661				186.38
	686	678	670	662	655			189.92
	687	679	671	663	656	652		193.46
	688	680			657	653	651	197.0
	689	681	673	665	653	651		200.54
	690	682	674	666	659			204.08
	691	683	675	667				207.62

data in datasets RB12XX

TABLE XI. - EXTERNAL TANK ATTACH POINT PRESSURE ORIFICE LOCATIONS
(CONTINUED)

X_T FULL SCALE	1874	1864	1854	1844	1834	1824	1814	
X_T MODEL SCALE	56.22	55.92	55.62	55.32	55.02	54.72	54.42	
X_T/l_T	.839	.834	.828	.823	.818	.812	.807	
								$\theta \sim$ DEG.
	719	713	707					222.84
	720	714	708	701				226.38
	721	715	709	702	696			229.92
	722		710	703	697	693		233.46
				704	698	694	692	237.00
					699	695		240.54
	723	718	712	706	700			244.08

FWD
DRAG
LINK
ATTACH
POINT

data in datasets RB12XX

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TABLE XI. - EXTERNAL TANK ATTACH POINT PRESSURE ORIFICE LOCATIONS

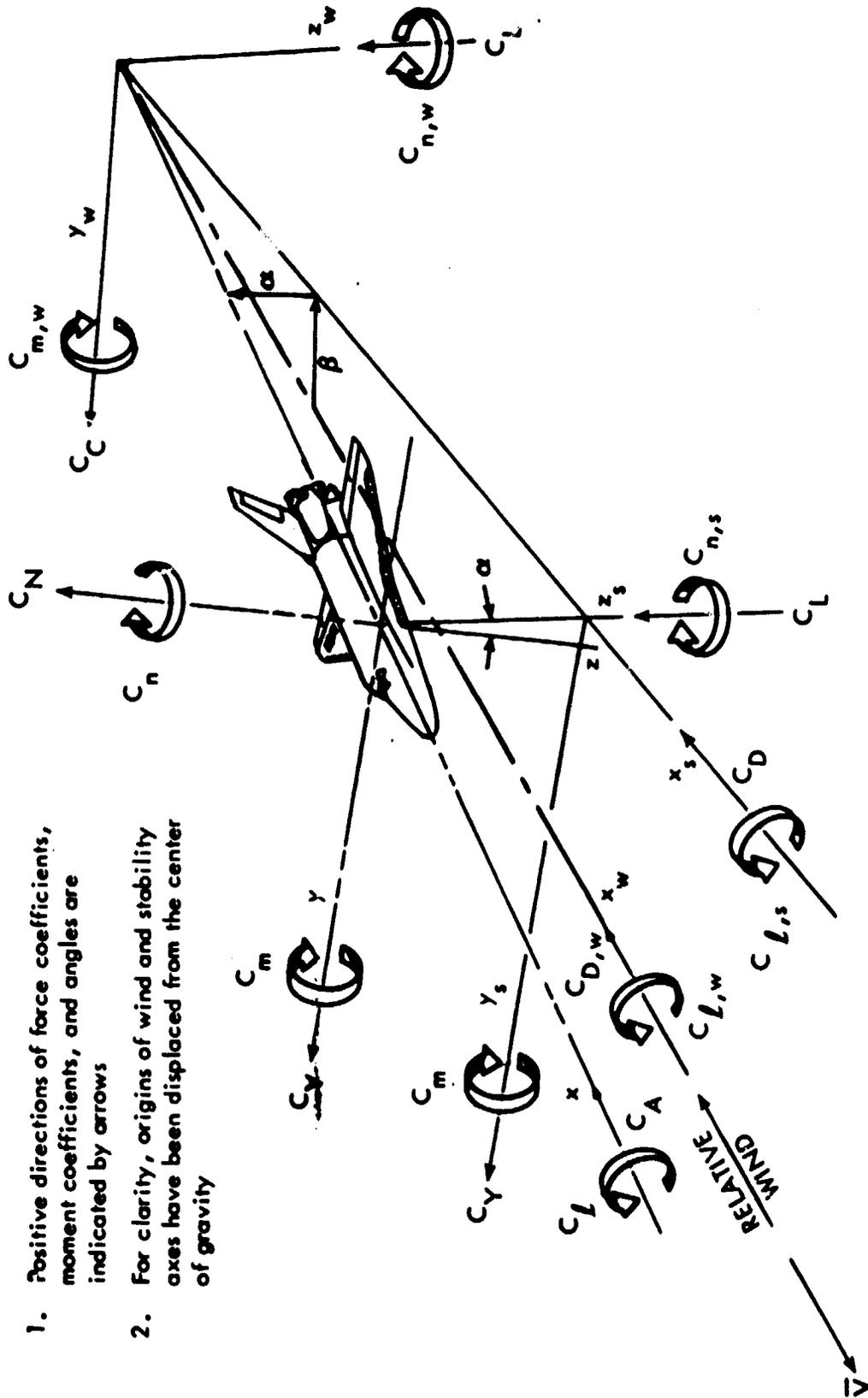
(CONCLUDED)

X_T FULL SCALE	2078	2068	2058	2048	2038	2028	2018	
X_T MODEL SCALE	62.34	62.04	61.74	61.44	61.14	60.84	60.54	
X_T/r_T	.948	.943	.938	.932	.927	.921	.916	
								$\emptyset \sim \text{DEG.}$
AFT UPPER ATTACH	777	766	754					234.04
	778	767	755	742				237.58
	779	768	756	743	732			241.12
	780	769		744	733	726		244.66
	781	770		745	734	727	724	248.2
				746	735	728		251.74
		771	759	747	736			255.28
	782	772	760					323.51
	783	773	761	748				327.05
	784	774	762	749	737			330.59
AFT LOWER ATTACH	785	775		750	738	729		334.13
	786	776		751	739	730	725	337.67
				752	740	731		341.21
			765	753	741			344.75

data in datasets RB12XX

Notes

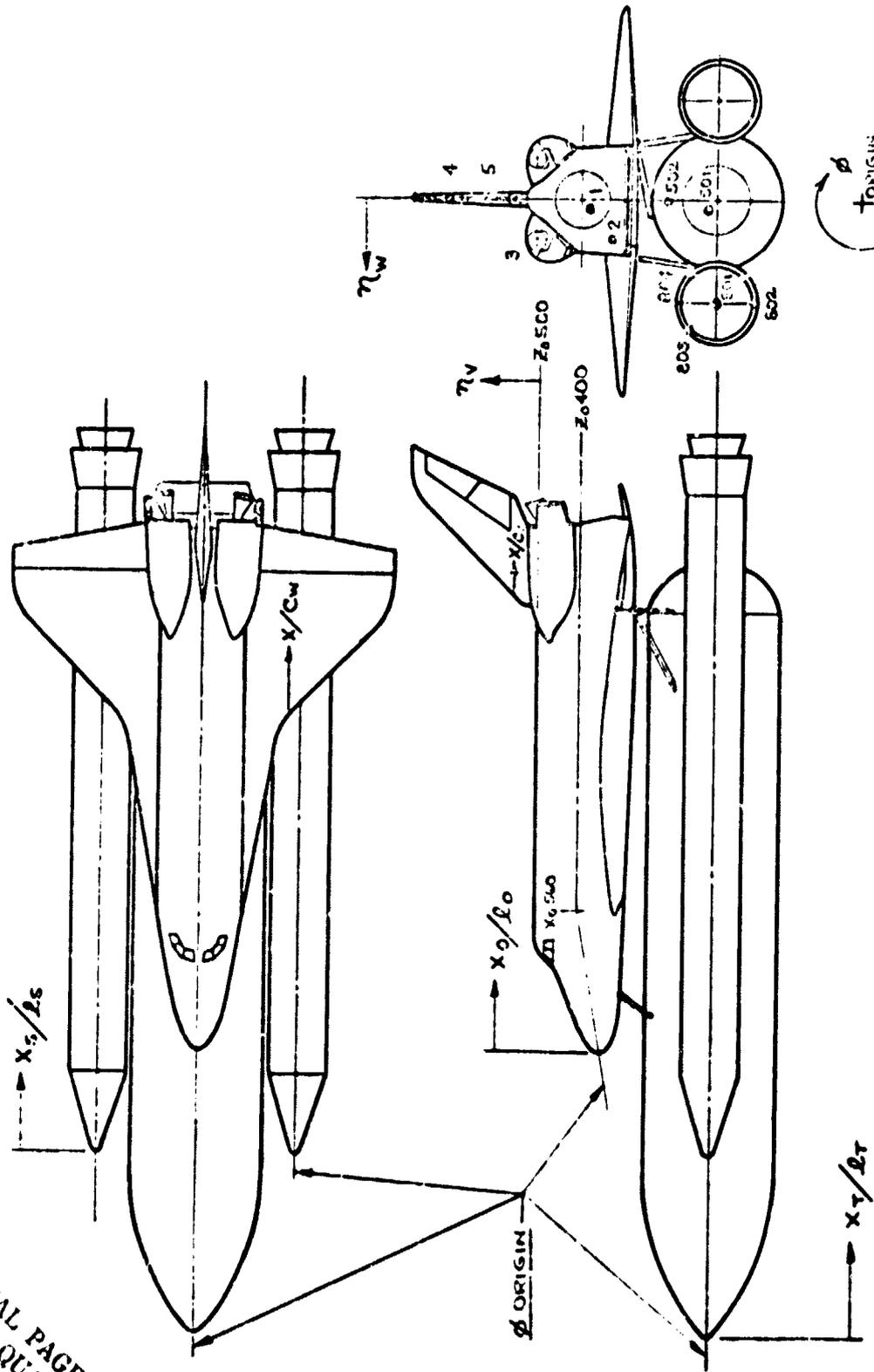
1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity



a. Stability and body axis systems
Figure 1. - Axis Systems

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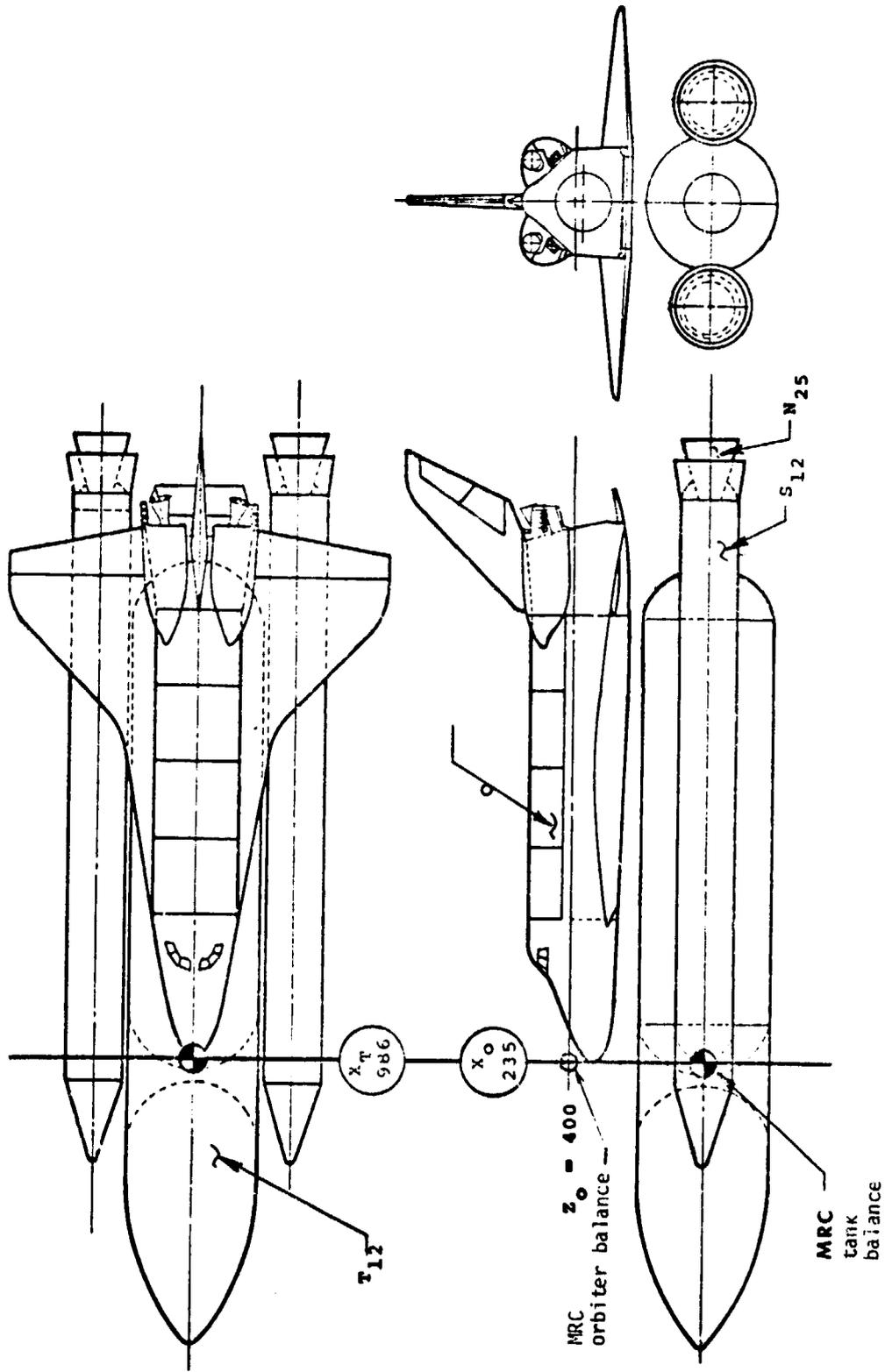
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b. Orifice location nomenclature diagram

Figure 1. - Concluded

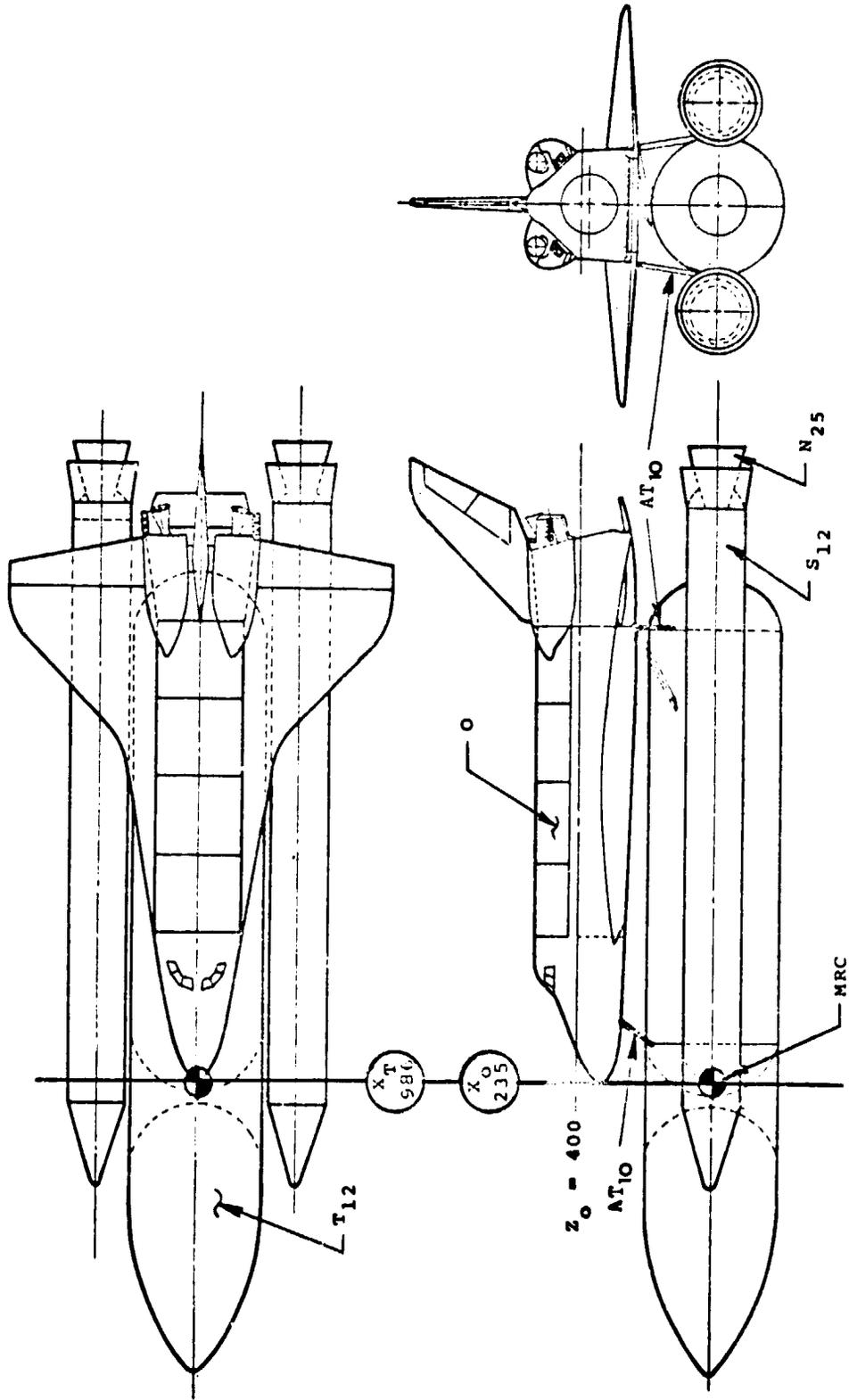
LV



a. Integrated vehicle - 2 balances, no attach structure

Figure 2. - Model Sketches

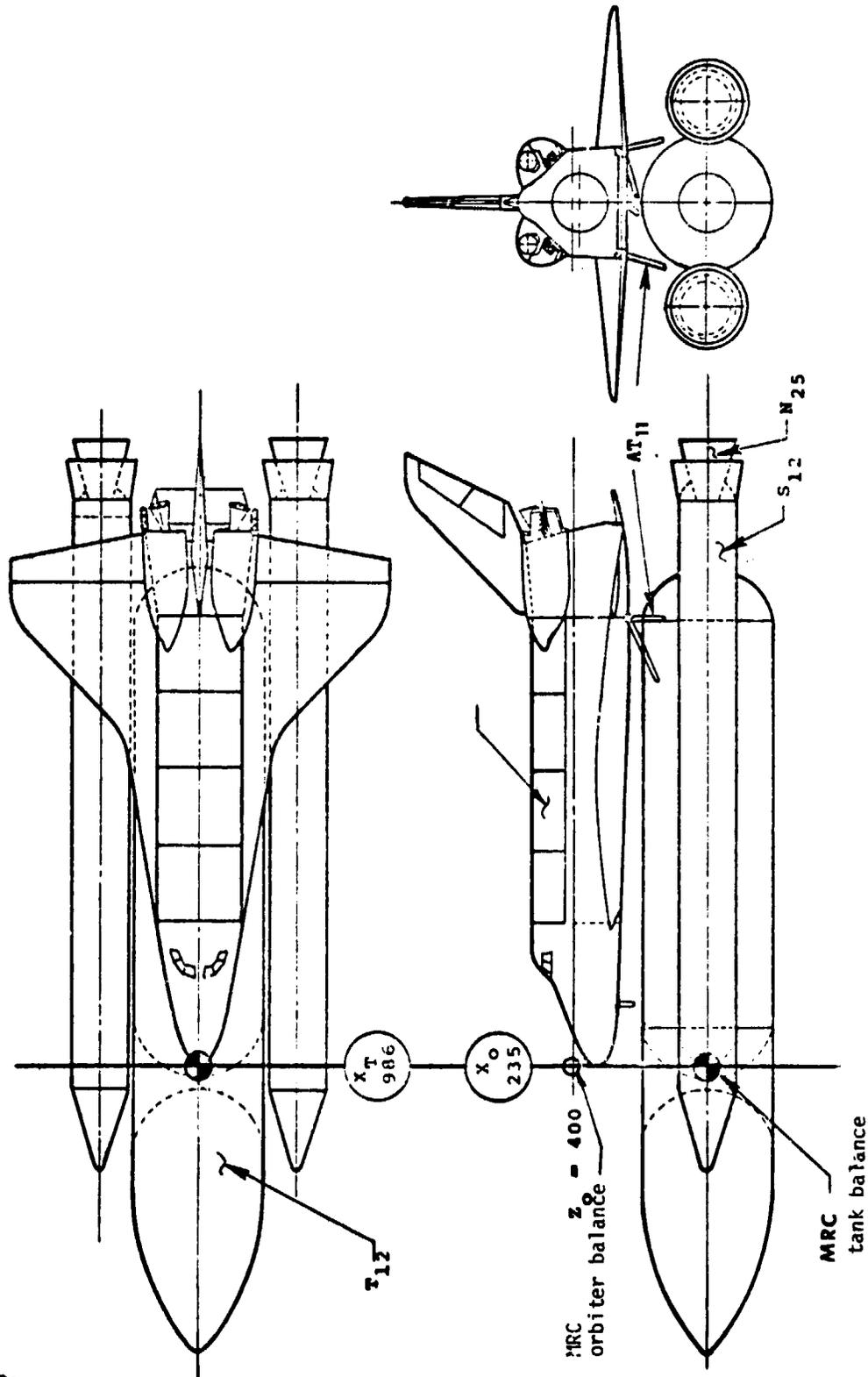
LVAP



b. Integrated vehicle - 1 balance with attach structure

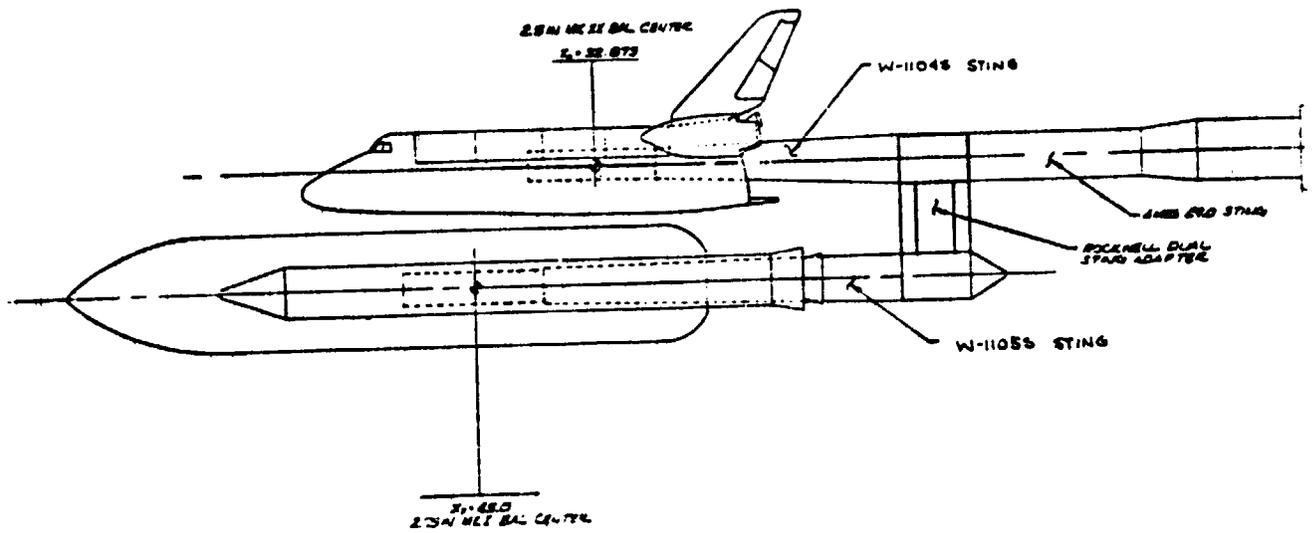
Figure 2. - Continued

LVAP

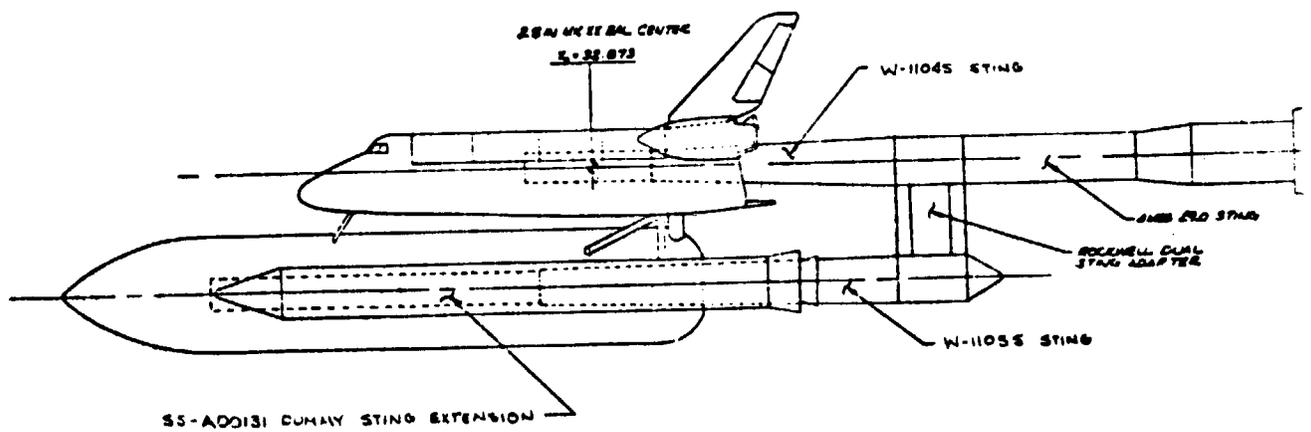


c. Integrated vehicle - 2 balances with attach structure
Figure 2. - Continued

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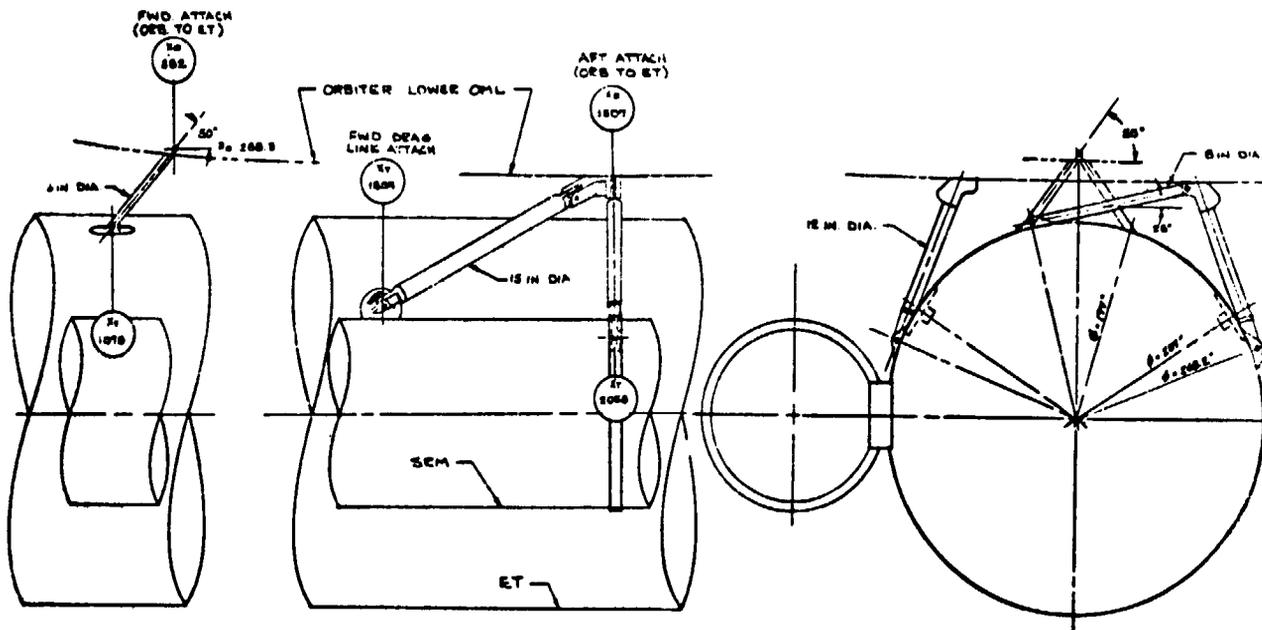
DUAL BALANCE CONFIGURATION ~ LV & LYAP



SINGLE BALANCE CONFIGURATION ~ LYA

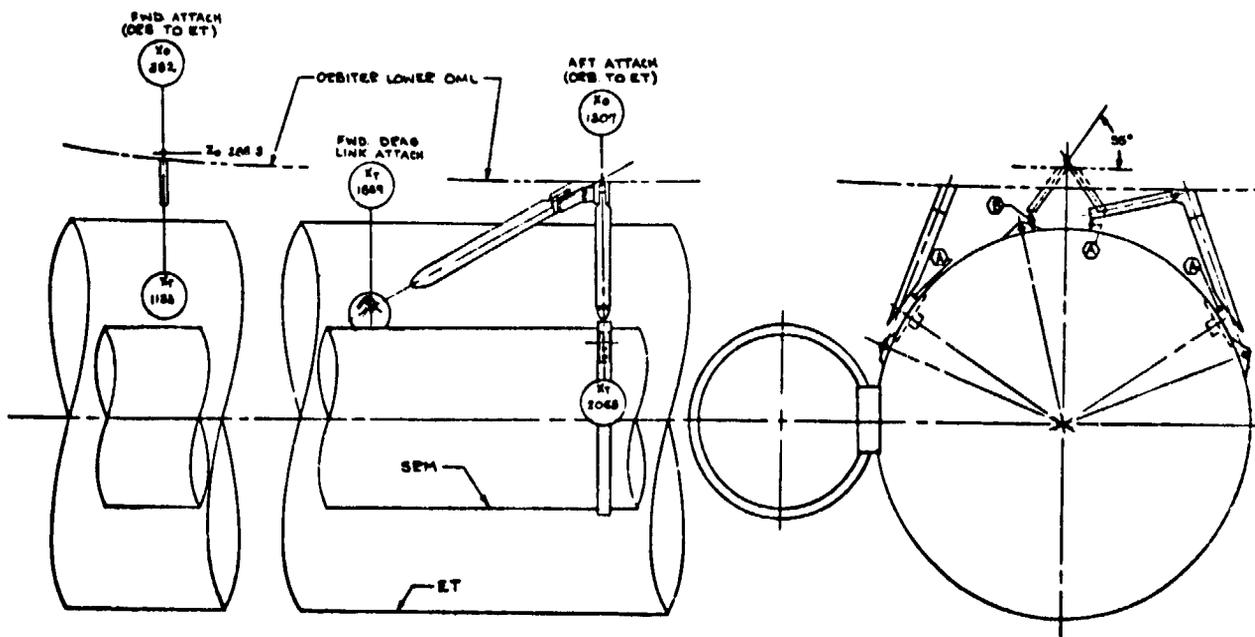
d. Installation side views

Figure 2. - Continued



ATTACH HARDWARE CONFIGURATION - A110

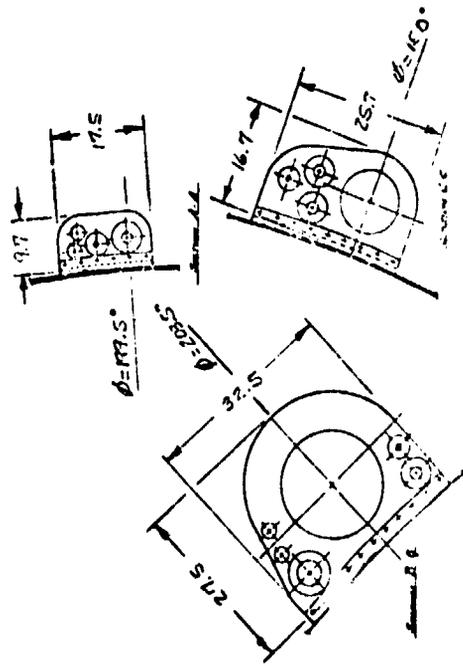
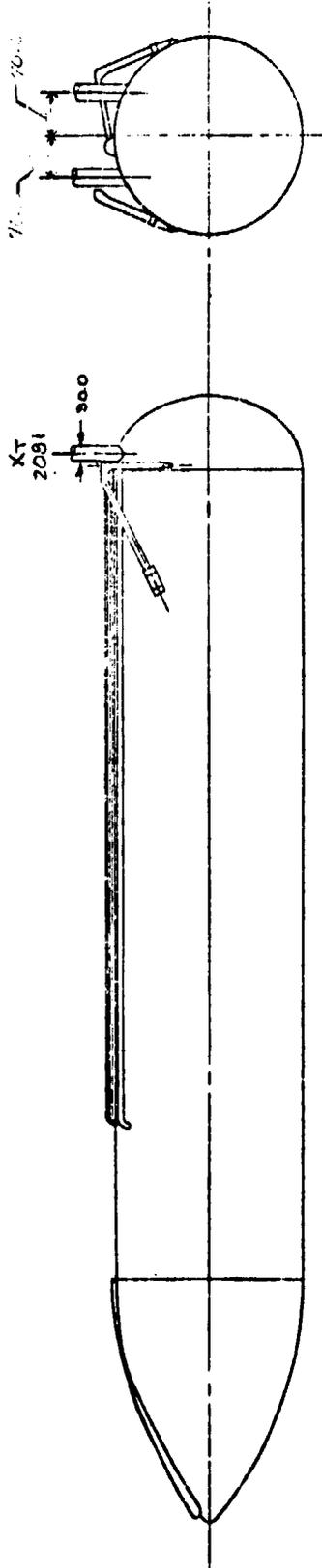
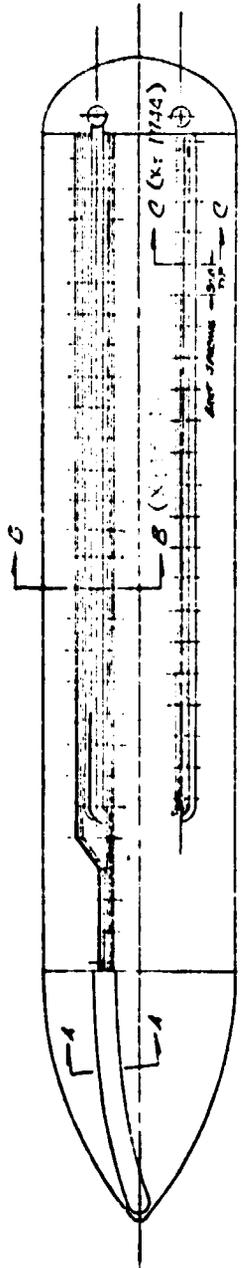
ATTACH HARDWARE CONFIGURATION - A111



⊙ 8.50 IN. CLEARANCE
 ⊙ 16.57 IN. CLEARANCE

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e. Attach hardware
 Figure 2. Continued

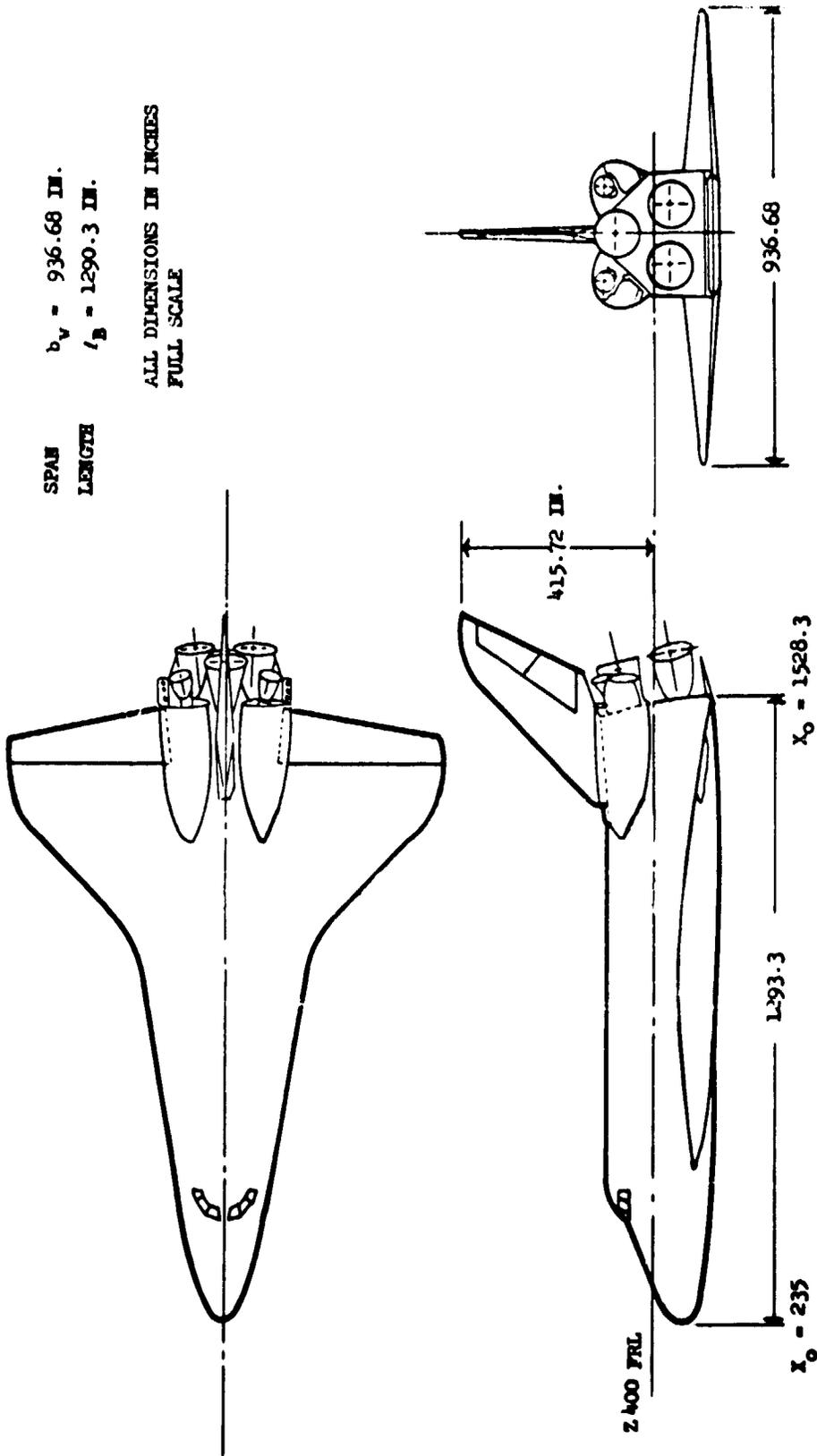


f. External tank protuberances
Figure 2. - Continued

REFERENCE	DIMENSIONS (FS)
AREA	$S_v = 2690 \text{ FT}^2$
MAC	$C = 474.8 \text{ IN.}$

SPAN	$b_v = 936.68 \text{ IN.}$
LENGTH	$l_B = 1290.3 \text{ IN.}$

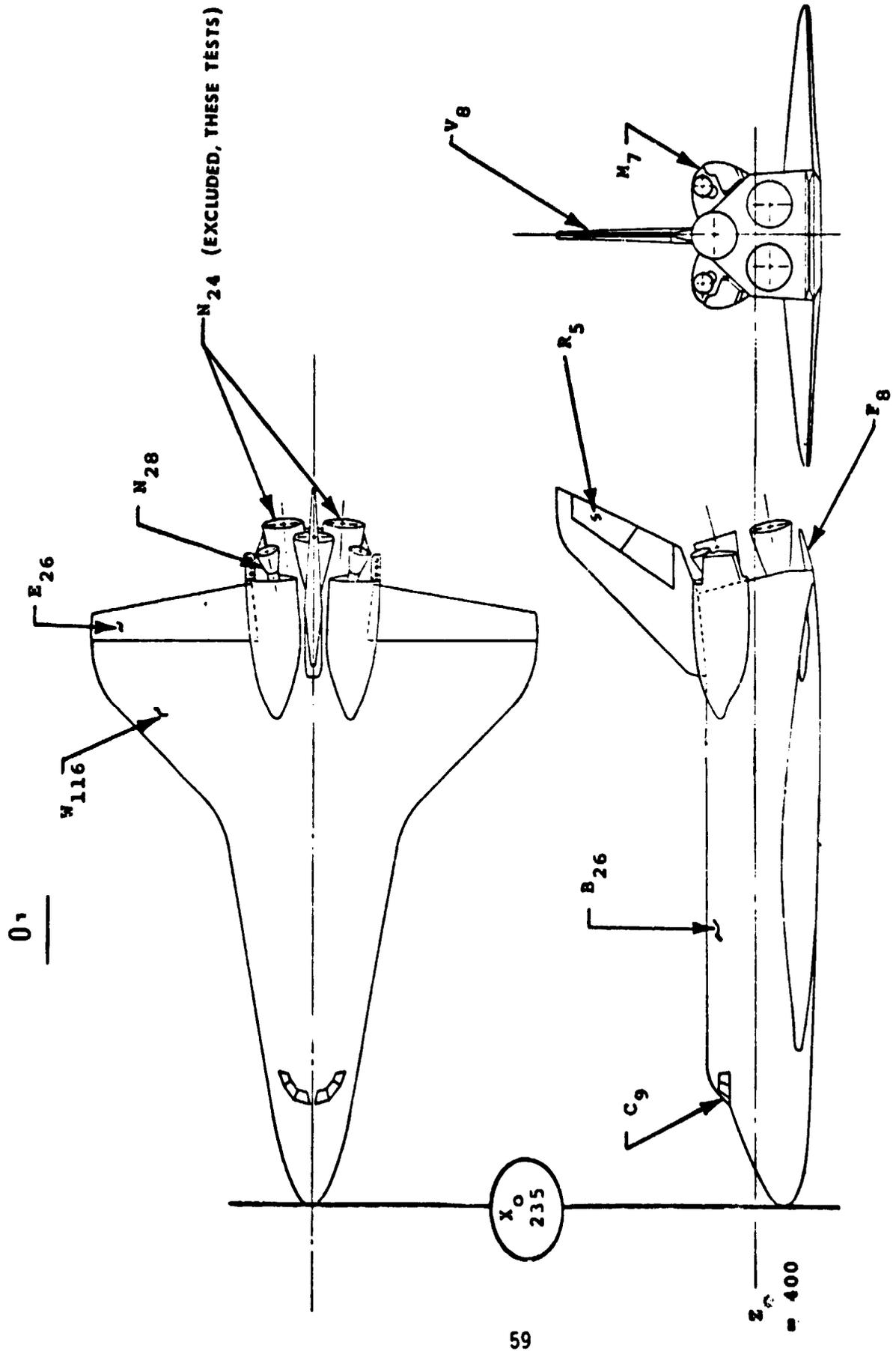
ALL DIMENSIONS IN INCHES
FULL SCALE



g. SSV orbiter configuration 140A/B

Figure 2. - Continued

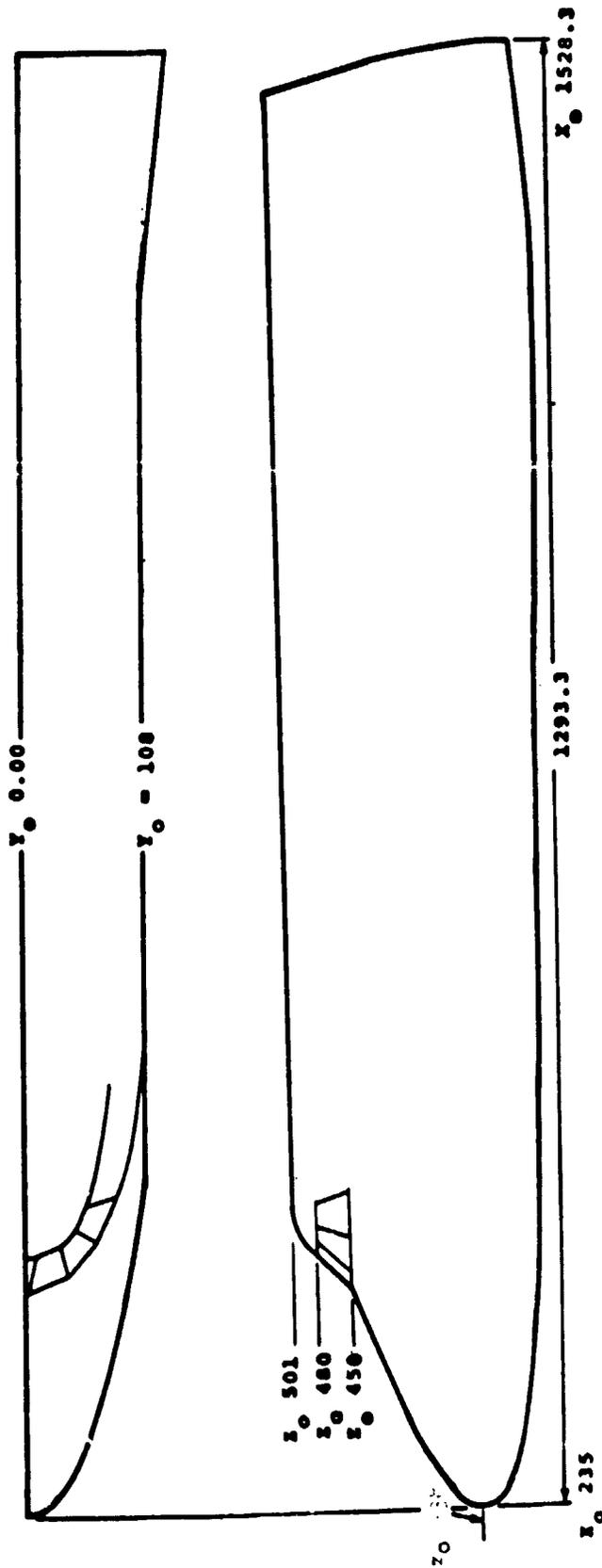
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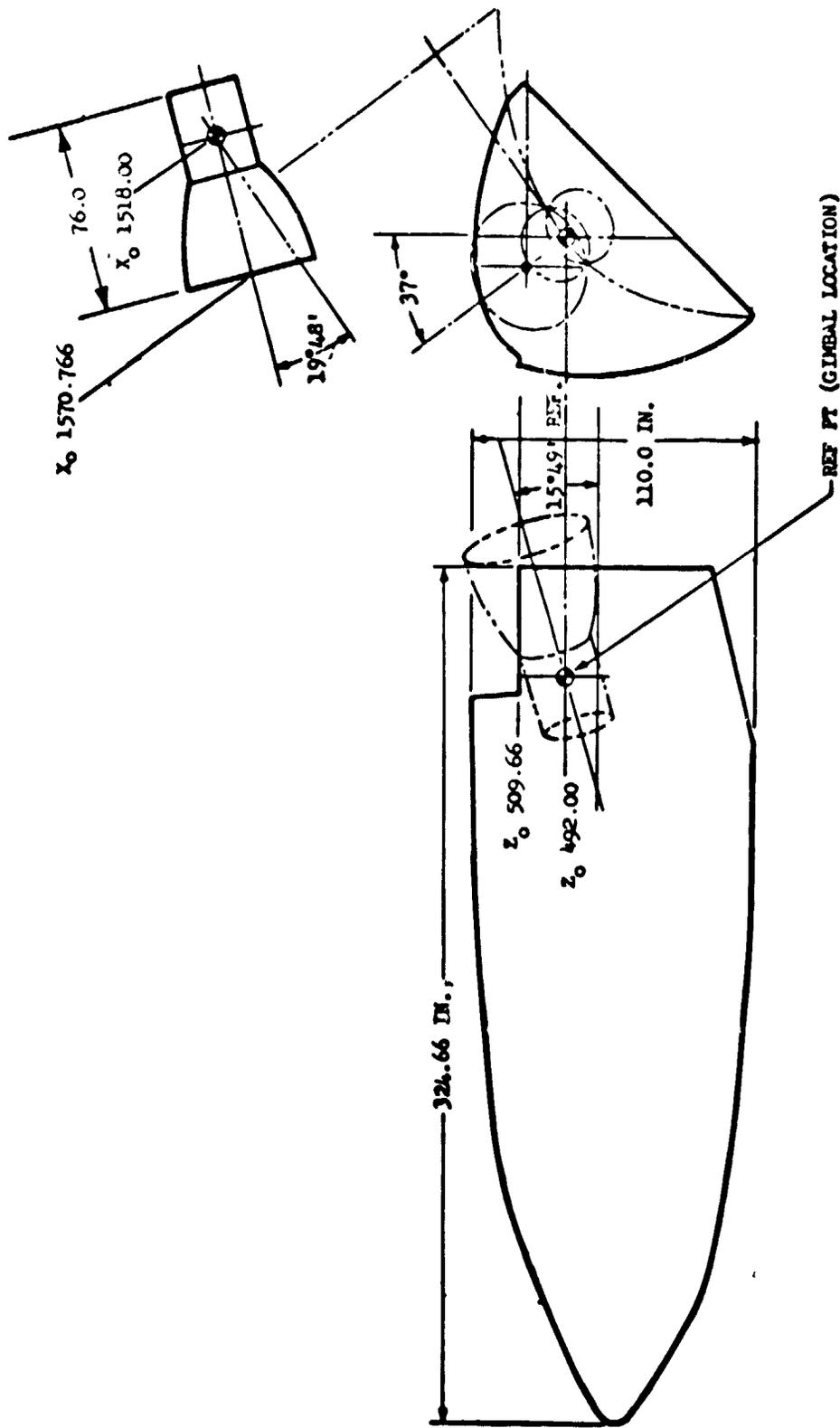
h. Orbiter nomenclature

Figure 2. - Continued

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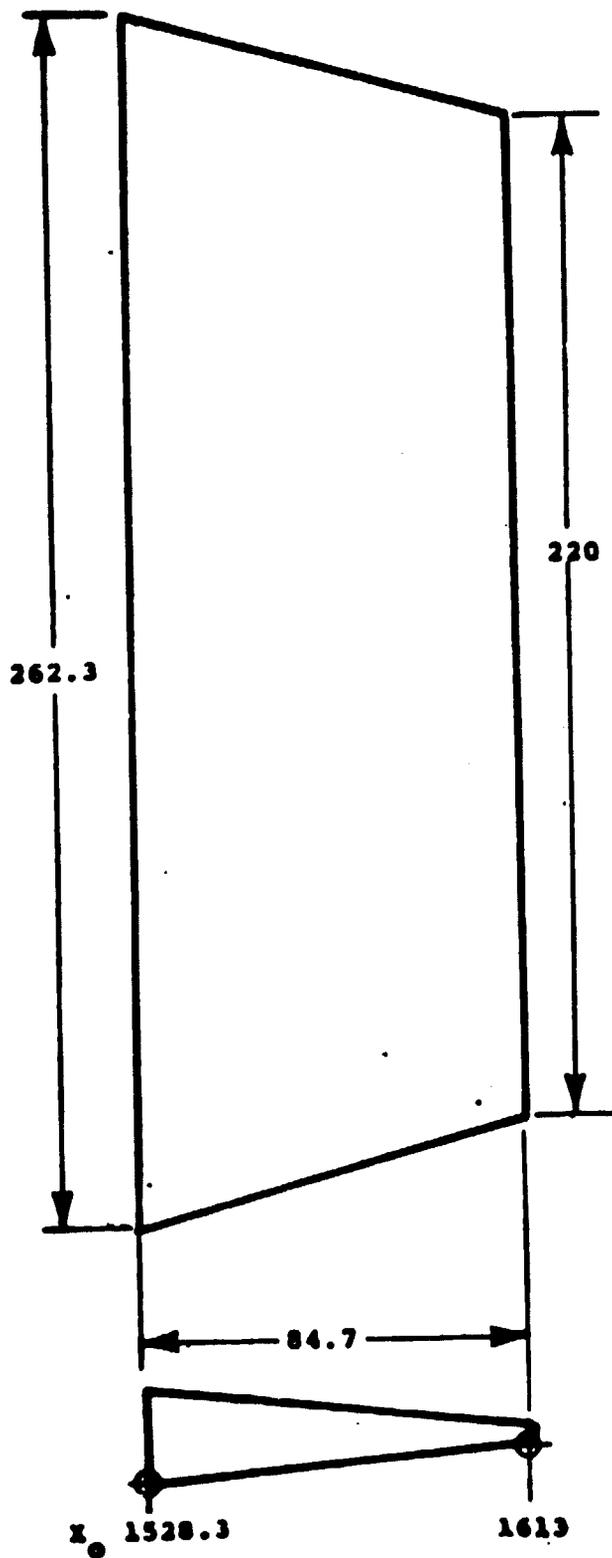


i. Canopy, Cg, and body, B26, lines drawing VL70-00193 and VL70-000140A/B
Figure 2. - Continued



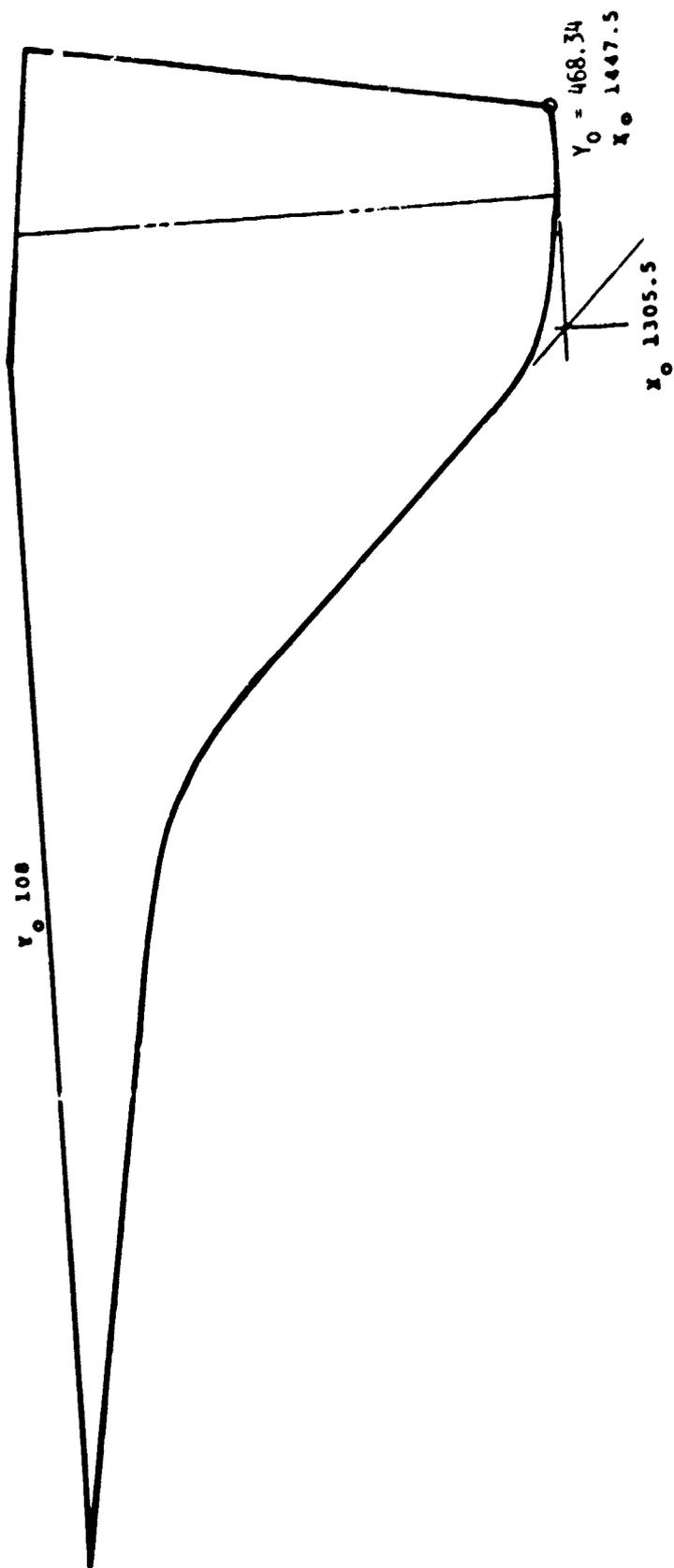
J. M7 - OMS Pod

Figure 2. - Continued



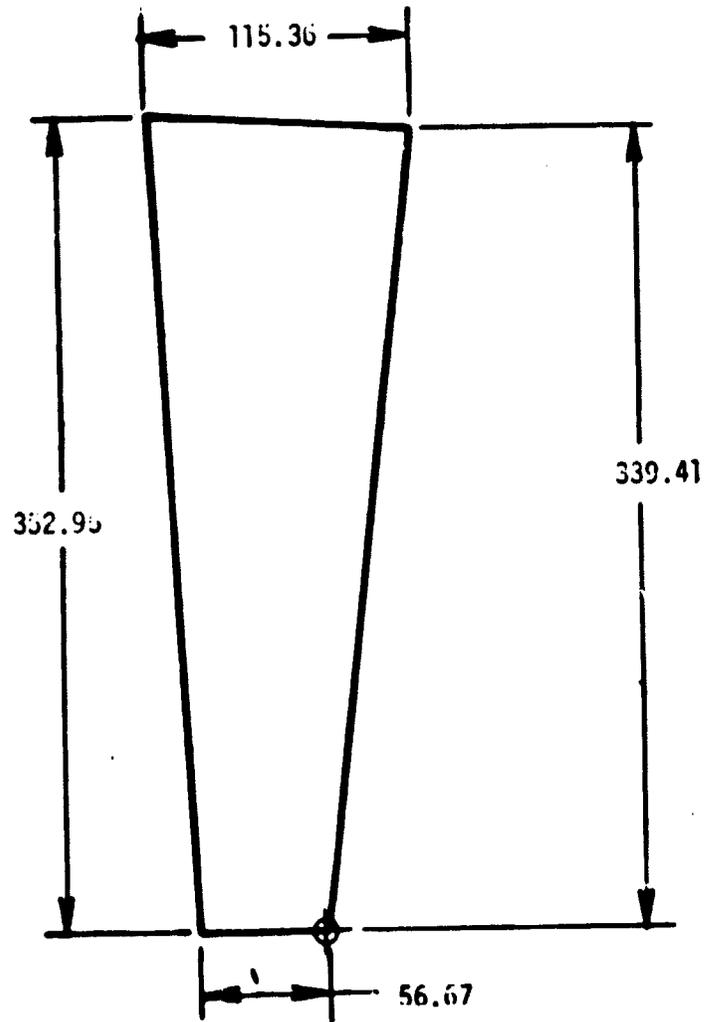
k. Body flap, F_8 , lines drawing no. VL70-000140A/B

Figure 2. - Continued

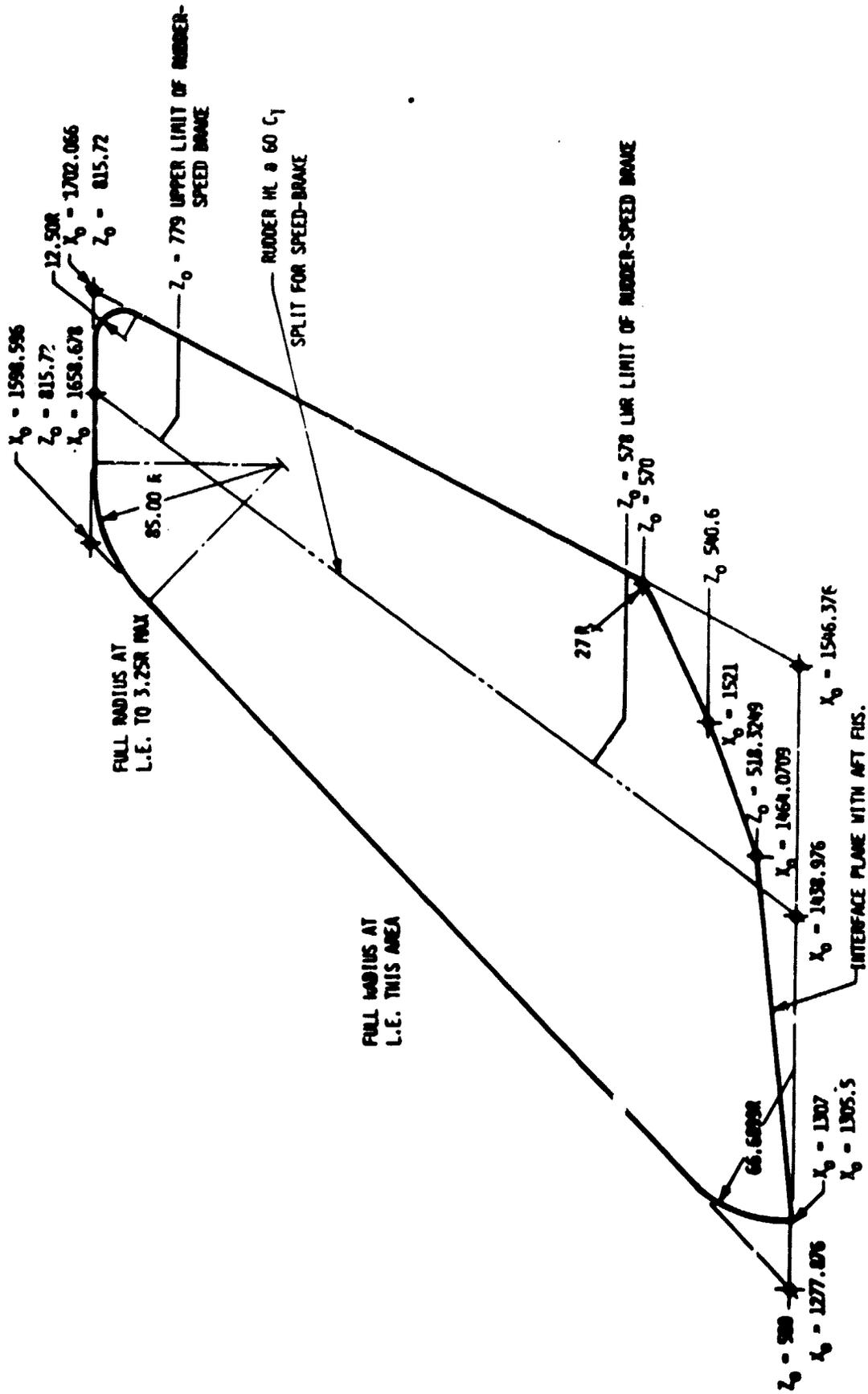


1. Wing, W₁₁₆, lines drawing no. VL70-000200
 Figure 2. - Continued

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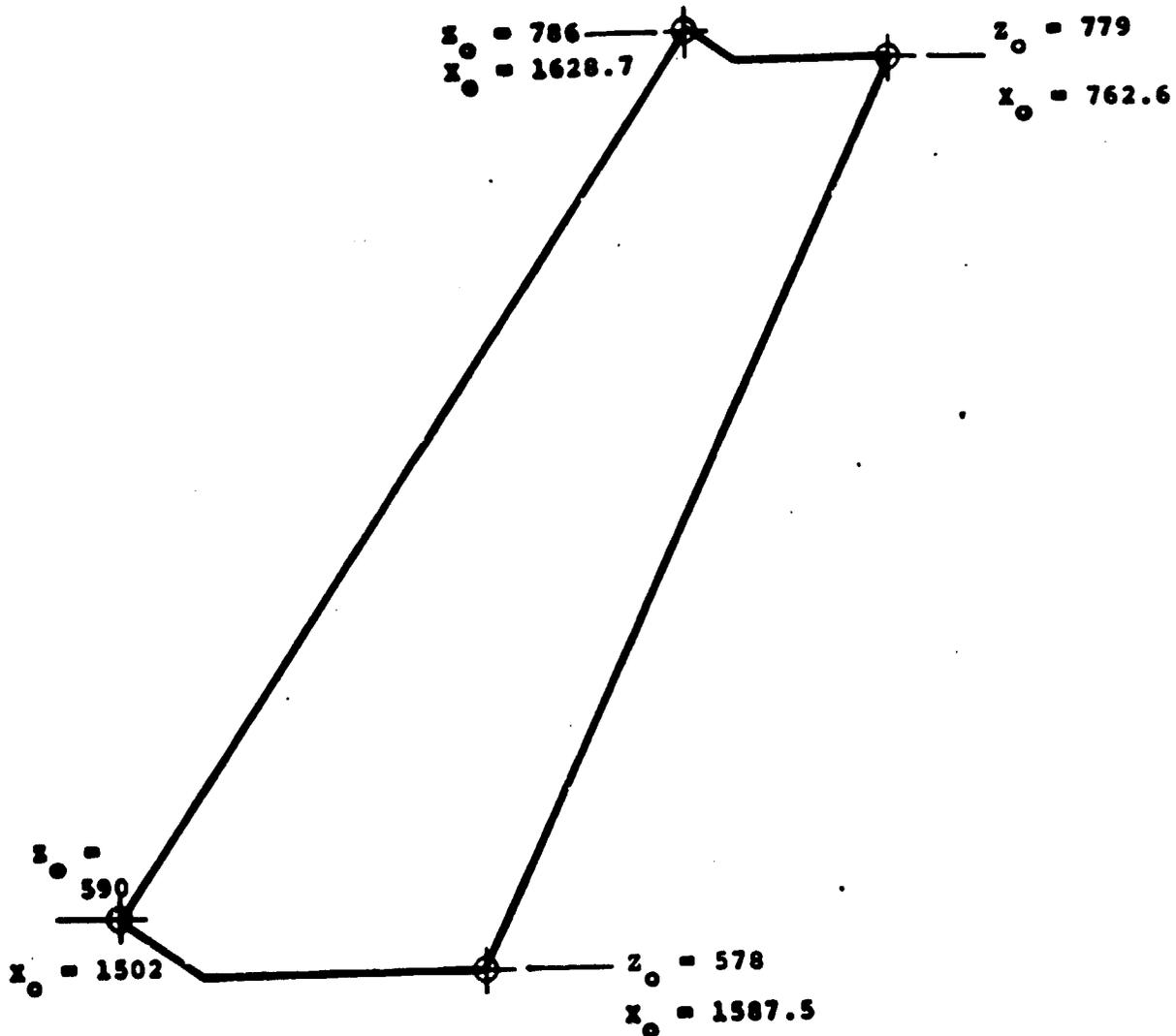


m. Elevation, E₂₆, lines drawing no. VL70-000200, VL70-000140A/B
Figure 2. - Continued



n. Vertical tail, V8, and rudder, R5, lines drawing no. VL70-000146A

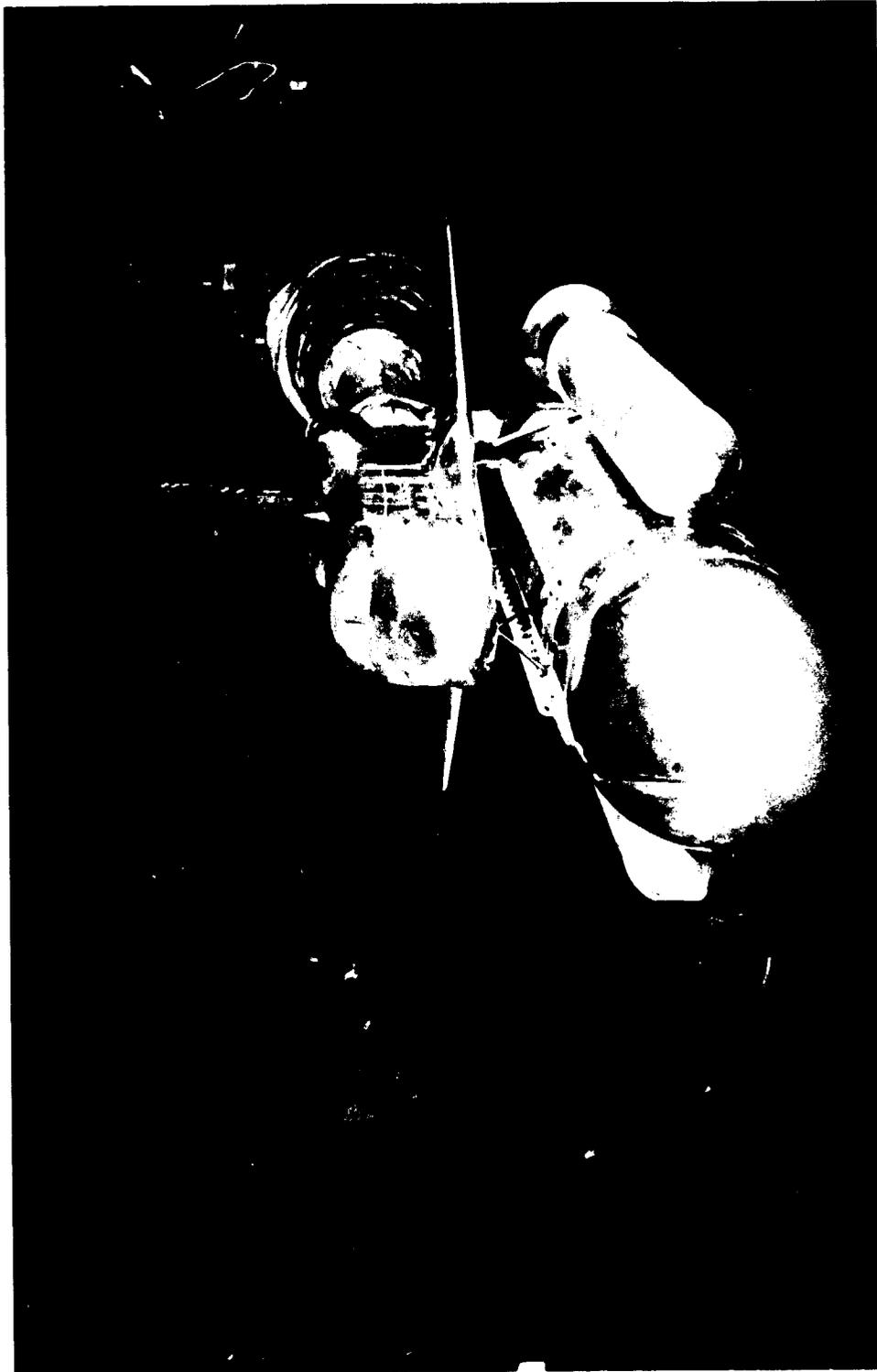
Figure 2. - Continued



o. Rudder, R5, lines drawing no. VL70-000095

Figure 2. - Concluded

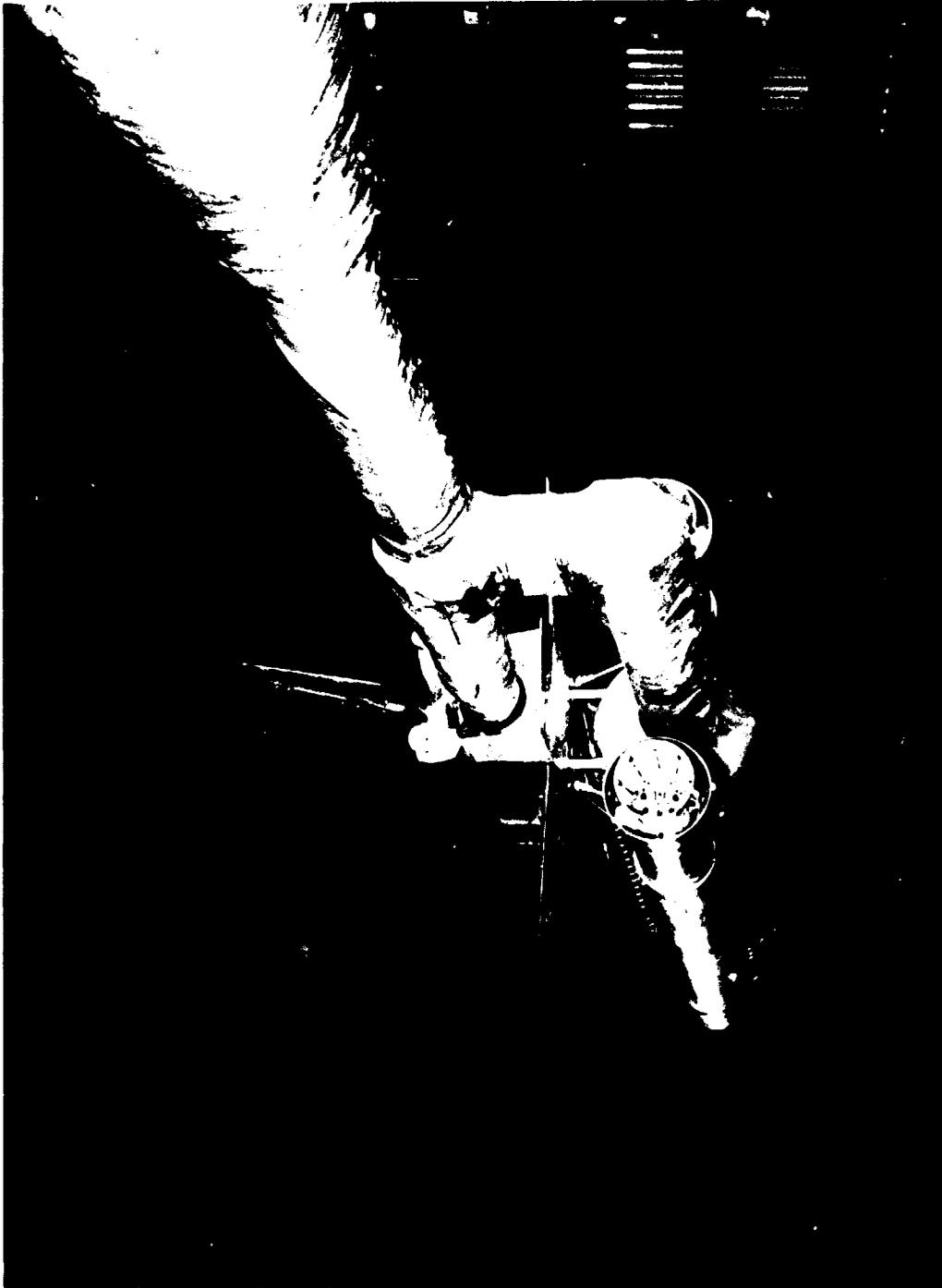
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a. Front view of model installed in tunnel

Figure 3. - Model photographs.

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b. Rear view of model installed in tunnel

Figure 3. - Concluded.

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TABULATED PRESSURE DATA

ARC11-716 1A14 01+T12+S12M23+AT11 CR8. FUSELAGE (RE1817)

MACH (1) = .898 ALPHA(2) = -4.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.2180	.5448	.1178	.0390	.0452	.0000	-.2180	-.2395	-.2183	-.2385	-.1375	-.0417	.0204	.0408
20.000				.1326	.0405	.0471	-.0131	-.2636	-.2395	-.2395	-.2385	-.1375	-.0417	.0204	.0408
40.000				.2404	.0535	.0118	-.0875	-.2173	-.2385	-.2385	-.2385	-.1375	-.0417	.0204	.0408
55.000				.3088	.0954	.0020	-.0870	-.4417	-.3287	-.3287	-.3651	-.1264	-.0427	.0328	.0789
70.000				.3530	.1241	-.0069	-.0562	-.2971	-.3696	-.3696	-.8468	-.1316	.0257	.0546	
90.000				.3314	.3713	.1562	-.0396	-.2642	-.4541	-.4541	-.7910	-.2032	.0247	.0517	
120.000				.4229	.2145	.1445	.1993	-.0152	-.5796	-.5796	-.7547	-.3308	.0240	.0260	
140.000				.4355	.3907	.2316	.2790	.1807	-.6521	-.6521	-.9642	-.1943	.0201	.0223	
151.000								.3186							
156.000								.2565							
162.000								.6480							
165.000								.7886							
169.000								.6287							
174.000															
180.000															
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.0322	.0505	-.0054	-.1999	-.3242	-.2746	-.2682	-.2117	-.2119						
40.000	.0208	.0417	.1320	-.2360	-.3053	-.3110	-.2419	-.2132	-.2251						
70.000	-.0486	-.1220	-.0935	-.0196	-.1366	-.0746	-.1351								
90.000	-.0110	-.0542	-.0403	-.0565	-.1713	-.1116	-.1799								
103.071			.0360	-.1431	-.2059	-.1674	-.1941								
110.000								-.2785							
120.000	.0285	.0575	.1096	-.2222	-.2015	-.1959	-.2234	-.2511							
135.000			.5674	.0908	-.2157	-.2047	-.2790								
150.000	.0495	.1399	.3994	.2644	-.2411	-.1949	-.3321								
165.000	.0492		.3244		-.1633	-.2059	-.3101								
180.000	.0504	.1394	.3030	.4929											

MACH (1) = .898 ALPHA(3) = -.220

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.2140	.5684	.1245	.0220	.0365	.0000	-.1479	-.1703	-.1703	-.1959	-.1258	-.0318	.0414	.0719
20.000				.1686	.0368	.0367	-.0132	-.1955	-.1703	-.1703	-.1959	-.1258	-.0318	.0414	.0719
40.000				.2578	.0510	.0079	-.0904	-.2508	-.1703	-.1703	-.1959	-.1258	-.0318	.0414	.0719
55.000				.3078	.0865	-.0008	-.0637	-.2254	-.2507	-.2507	-.3412	-.1436	-.0459	.0485	.1093
70.000				.3373	.1099	-.0042	-.0369	-.1622	-.2507	-.2507	-.3412	-.1436	-.0459	.0485	.1093
90.000				.4958	.3004	.1086	-.0075	-.1914	-.3089	-.3089	-.7964	-.1873	-.0088	.0221	
									-.4112	-.4112	-.7818	-.2148	-.0088	.0257	



AFC11-716 1A14 ORBITER FUSELAGE (RB1817)

MACH (1) = .896 ALPHA(3) = -.220

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2090	.2520	.3010	.3790	.4990	.5760
PHI															
120.000		.3658	.1444	.0957	.1349	.0126									
140.000															
170.000		.3529	.2460	.1654	.2241										
151.000						.1484									
156.000						.9049									
162.000															
165.000															
169.000															
174.000															
180.000	1.2140	.5986	.3291	.2597	.2191	.2721	.7549	.9954							
W/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.0885	.0651	.0134	-.2063	-.3135	-.2685	-.2990								
40.000	.0685	.0636	.1646	-.1957	-.4680	-.2947	-.2400								
70.000	-.1503	-.2476	-.1595	-.0384	-.2221	-.0705	-.1166								
90.000	-.0969	-.1807	-.0927	-.0770	-.2824	-.1082	-.1593								
105.000															
110.000															
120.000	-.0455	-.0033	.1034	-.1669	-.3386	-.1706	-.1966								
135.000			.4853	.0430	-.3209	-.2003	-.2380								
150.000	-.0066	.0822	.3165	.1900	-.3306	-.2297	-.3051								
165.000	-.0028		.2578		-.2188	-.2580	-.2725								
180.000	.0015	.0831	.2376	.4296											

MACH (1) = .896 ALPHA(4) = 3.830

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2090	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.2010	.6492	.1617	.0909	.0254	.0000									
20.000			.2098	.0480	.0362	-.0211									
40.000			.2868	.0745	.0200	-.1147									
55.000			.3203	.0969	-.0022	-.1152									
70.000			.3292	.0971	-.0256	-.0635									
90.000	.4591	.3081	.0824	-.0327	-.0401										
120.000		.5034	.0949	.0292	.1010										
140.000															
150.000		.2640	.1496	.0807	.1700										
151.000															
156.000															
162.000															

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ARC11-716 1A14 01+T12+S12825+AT11 ORB. FUSELAGE (RB1817)

MACH (1) = .896 ALPHA(4) = 3.830

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
165.000															
169.000															
174.000															
180.000	1.2010	.4906	.2227	.1624	.1303	.2090	.7166	.5992		-1.1390	-.9687	-.3235	.0282	.0120	
X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
165.000															
169.000															
174.000															
180.000	1.2010	.4906	.2227	.1624	.1303	.2090	.7166	.5992		-1.1390	-.9687	-.3235	.0282	.0120	
X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
165.000															
169.000															
174.000															
180.000	1.2010	.4906	.2227	.1624	.1303	.2090	.7166	.5992		-1.1390	-.9687	-.3235	.0282	.0120	

MACH (1) = .896 ALPHA(5) = 6.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
169.000															
174.000															
180.000	1.1760	.6947	.1896	.0492	.0283	.0000									
X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
169.000															
174.000															
180.000	1.1760	.6947	.1896	.0492	.0283	.0000									



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ARC11-716 1A14 OR-712-S12M25-A711 CRG. FUSELAGE (R01017)

MACH (1) = .998 ALPHA(X) 51 = 8.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI	.000	.1538	.1261	.0996	-.1832	-.3430	-.2837	-.25 6	-.2029	-.1968
40.000	.1471	.1009	.2133	-.1589	-.9209	-.3314	-.2552		-.2107	-.2033
70.000	-.2748	-.3239	-.3666	-.0333	-.1663	-.0864	-.1194			
90.000	-.2222	-.4197	-.2808	-.0827	-.2044	-.1409	-.1615			
105.000		-.1195	-.1991	-.2442	-.1848	-.1849				
110.000						-.2354				
120.000	-.1737	-.1652	-.0903	-.1519	-.2444	-.1692	-.1869			
135.000		.2859	-.0506	-.2337	-.1814	-.2219				
150.000	-.0985	-.0841	.1679	.0477	-.3067	-.2345	-.2679			
165.000	-.0797		.1034		-.2242	-.2327	-.2232			
180.000	-.0690	-.0292	.0857	.3123						

MACH (2) = .977 ALPHA(X) 11 = -7.920

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.5760
PHI	.000	1.2640	.9645	.2026	.1929	.1510	.0000	-.1970	-.2183	-.3275	-.3763	-.1666	.0355	.0796	
20.000		.2323	.1351	.1302	.1301			-.4777	-.2122	-.4777	-.2863	-.3100	-.2368	.0931	.1221
40.000		.3182	.1902	.1082	.0531			-.4873	-.2863	-.3100	-.3060	-.2368	.0931	.1221	
55.000		.3946	.1898	.1054	.0240			-.3116	-.4510	-.3979	-.7753	-.4785	-.2021	.1606	
70.000		.4485	.2229	.1083	.0686			-.1703	-.4268	-.4268	-.7262	-.6261	-.2029	.1571	
90.000	.6343	.4764	.2633	.1304	.0700			-.1373	-.3766	-.6381	-.9219	-.3250	.1397		
120.000		.5468	.3536	.2712	.2889			.0926	-.4443						
140.000		.5629	.4766	.3984	.3974				-.6412	-.7344	-.4531	-.4276	.1527		
150.000								.2915							
151.000								.6223							
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.2640	.6388	.3919	.4987	.4468	.4682			-.6381	-.6384	-.3924	-.4270	.1487		

MACH (2) = .977 ALPHA(X) 11 = -7.920

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI	.000	.0670	.0677	.0573	-.0814	-.4277	-.3637	-.3606	-.3119	-.3030
40.000	.0302	.0696	.1930	-.2384	-.6001	-.4444	-.3366		-.2981	-.3094
70.000	.1369	.0693	.0649	.1163	-.1234	-.0192	-.0770			
90.000	.1361	.1136	.1084	.0761	-.1286	-.0595	-.1176			
105.000		.1087	.0043	-.1638	-.1129	-.1392				
110.000										

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(RE1817)

ARC11-716 IA14 OR-112-SIZES*AT11 ORB. FUSELAGE

MACH (2) = .977 ALPHA(1) = -7.920

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6550	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.1716	.2005	.2055	-.0678	-.2213	-.1638	-.1861	-.2771		
135.000		.6905	.2587	-.2818	-.1328	-.2666				
150.000	.1866	.2768	.5342	.4220	-.1821	-.0734	-.3469			
165.000	.1875	.4579			-.3515	-.0740	-.3773			
180.000	.1906	.2768	.4378	.6358						

MACH (2) = .976 ALPHA(2) = -5.860

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2090	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.2360	.6063	.1779	.1111	.1043	.0000		-.1738		-.1980	-.2944	-.3001	-.1461	.0592	.0987
20.000		.2132	.0894	.1043	.1069			-.3186		-.1955					
40.000		.3033	.1062	.0632	.0168			-.5513		-.2453	-.3014	-.3941	-.1940	.0756	.1365
60.000		.3715	.1496	.0596	.0053			-.2931		-.2931					
80.000		.4134	.1776	.0563	.0256			-.1842		-.3970	-.7289	-.4713	-.2297	.1461	
90.000	.9683	.4307	.2137	.0737	.0431			-.1448		-.4183	-.7581	-.3621	-.2143	.1458	
120.000		.4783	.2797	.2029	.2248			.0928		-.3913	-.6671	-.9340	-.3061	.1428	
140.000		.4841	.3784	.3027	.3396				.2817	-.4793	-.7087	-.3816	-.4201	.1490	
150.000								.9581							
165.000									.3527		-.7228	-.7505	-.4934	-.4800	.1437
180.000	1.2360	.7561	.4822	.3951	.3447	.3681	.8437	.7183							

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1174	.1028	.0827	-.1128	-.3993	-.3331	-.3317		-.2896	-.2812
40.000		.0827	.1077	-.1842	-.5658	-.3972	-.3192		-.2771	-.2955
60.000	.0422	-.0337	.0082	.0906	-.2022	-.1703	-.1229			
80.000	.0782	.0309	.0640	.0359	-.2187	-.2156	-.1877			
105.000		.1337	-.0144	-.2829	-.2981	-.2012				
110.000										
120.000	.1130	.1486	.2030	-.0724	-.3063	-.2308	-.3044			
135.000			.9917	.2229	-.3364	-.1492	-.2992			
150.000	.1327	.2219	.4611	.3226	-.2491	-.1229	-.3618			
165.000	.1353	.3963			-.3333	-.1677	-.3399			
180.000	.1374	.2200	.3609	.5889						



ARC11-716 1A14 04112+512825+AT11 ORB. FUSELAGE (RB1817)

MACH (2) = .977 ALPHA(3) = .090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	1.2440	.6290	.1500	.0994	.0489	.0000		-.1746		-.1297	-.2084	-.2167	-.1006	.0702	.1233
40.000		.1929	.0489	.0489	.0912			-.2361		-.1343					
60.000		.2673	.0652	.0150	-.0182			-.4141		-.1410	-.2603	-.3663	-.1421	.0681	.1602
80.000		.2476	.1096	.0111	-.0345			-.3236		-.1712					
100.000		.3760	.1279	.0079	-.0109			-.1825		-.2464	-.6639	-.4404	-.2845	.1152	
120.000		.5425	.3900	.1499	.0133	.0216		-.1366		-.3921	-.6472	-.5136	-.2537	-.1266	
140.000		.4034	.1806	.1224	.1851			.0965		-.3889	-.6720	-.6921	-.2126	.1192	
160.000		.3856	.2723	.1940	.2696					-.4805					
180.000								.2434		-.7575	-.6942	-.6746	-.2674	.1304	
200.000								.5762							
220.000								.3219		-.7645	-.7674	-.5692	-.3759	.1304	
240.000								.6699							
260.000										-.6669	-.6769	-.9246	-.3926	.1367	
280.000															
300.000	1.2440	.6328	.3703	.2673	.2440	.3164	.6077	.6635							
320.000	.6530	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
40.000	.1504	.1197	.0706	-.1435	-.3978	-.3119	-.3117		-.2684	-.2579					
60.000	.1372	.1457	.2103	-.1361	-.5437	-.3699	-.3100		-.2651	-.2632					
80.000	-.0464	-.1375	-.0562	.0697	-.2281	-.2322	-.2232								
100.000	-.0011	-.0763	.0066	.0326	-.2336	-.3051	-.2936								
120.000		.0933	-.0369	-.3035	-.3321	-.3260									
140.000															
160.000	.0496	.0803	.1608	-.0372	-.3443	-.2924	-.3677	-.2499							
180.000		.4724	.1967	-.3495	-.2306	-.3316									
200.000	.0630	.1693	.3766	.2856	-.2896	-.3712									
220.000	.0960		.3341		-.3230	-.2614	-.3530								
240.000	.0695	.1693	.3162	.4920											

MACH (2) = .975 ALPHA(4) = 4.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	1.2210	.6771	.1693	.0573	.0340	.0000		-.1635		-.0696	-.1134	-.1033	-.0432	.1006	.1443
40.000		.2212	.0606	.0366	.0679			-.2534		-.0945					
60.000		.3143	.0948	.0213	-.0637			-.3494		-.1055	-.2206	-.1636	-.0689	.1093	.1793
80.000		.3374	.1166	.0076	-.0477			-.3063		-.1193					
100.000		.3646	.1169	-.0150	-.0468			-.1894		-.1558	-.6272	-.3649	-.3034	.0640	
120.000		.3002	.3463	.1164	-.0396	-.0245		-.1359		-.2731	-.6299	-.4524	-.2629	-.1014	

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ARC11-79 1A14 01-Y12-S12M2+AT11 CAB. FUSELAGE (RS1817)

MACH (2) = .973 ALPHA(4) = 4.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0090 .0230 .0470 .0700 .1120 .1390 .1670 .1790 .2050 .2320 .3010 .3790 .4990 .5790

PHI

120.000 .3398 .1296 .0482 .1314 .0972 -.3764 -.6143 -.0623 -.1366 .0900
140.000 -.4761
150.000 .2948 .1745 .1007 .2039 -.7784 -.9382 -.7126 -.1404 .1303
151.000 .2232
156.000 .5984
162.000 .2936
163.000 -.8107 -.6339 -.5824 -.0936 .1300
169.000 .6543
174.000 .7825
180.000 1.2210 .2847 .2824 .1848 .1413 .2413 .0249 -.9445 -.9226 -.5576 -.0885 .1317

X/LB

.6530 .7900 .7810 .8230 .8620 .9230 .9430 1.0020 1.0210 1.0460

PHI

.000 .1723 .1413 .0833 -.1454 -.3684 -.3070 -.2965
40.000 .1885 .1737 .2153 -.1153 -.2831 -.3782 -.3015
70.000 -.1180 -.2864 -.2060 .0298 -.2599 -.3117 -.2937
90.000 -.0720 -.2306 -.1035 -.0128 -.3034 -.3566 -.3463
105.000 .0168 -.0969 -.3544 -.3693 -.3937
117.000 .0235 -.0105 .0966 -.0632 -.4009 -.3463 -.4284
123.000 .4144 .1387 .3940 .3117 .3699
135.000 .0914 .0843 .3187 .2122 .3347 .3344 .3633
150.000 .0382 .2889 .2889 -.3117 -.3610 -.3449
180.000 .0432 .1096 .4340
-2229
-2121
-2491 -2466
-2530 -2636

MACH (2) = .977 ALPHA(5) = 6.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0090 .0230 .0470 .0700 .1120 .1390 .1670 .1790 .2050 .2320 .3010 .3790 .4990 .5790

PHI

.000 1.2150 .7206 .1782 .0351 .0244 .0000
20.000 .2262 .0968 .0336 .0349
40.000 .3318 .1023 .0246 .0794
55.000 .3430 .1234 .0003 .1072
70.000 .3254 .1081 .0443 .0316
90.000 .4636 .3164 .1067 .0726 .0268
120.000 .2751 .0378 .0313 .0996
140.000 .2004 .0839 .0144 .1373
150.000
151.000
156.000
180.000
-0.799 -0.0821 -0.0631 -0.0114 .1033 .1800
-0.0810
-0.0882 -0.1896 -0.1322 -0.0630 .1179 .1937
-0.1000
-0.1329 -0.2908 -0.3431 -0.2972 .0694
-0.2236 -0.6137 -0.4035 -0.3067 .0792
-0.3297 -0.6375 -0.8130 -0.2750 .0340
-0.4603
-0.7826 -0.9900 -0.6966 -0.2203 .1171

.2119

.3424

.2483



ARC11-716 1A14 OUTSIDE+AT11 ORB. PUSBLAGE (R01817)

WACH (2) = .977 ALPHAO(5) = 8.030

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2920	.3010	.3790	.4990	.3760
PH1															
165.000															
174.000															
180.000	1.2130	.4183	.1544	.0809	.0305	.1860	.7237	.6306							
W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PH1

.0000	.1902	.1674	.1029	-.1213	-.3983	-.3204	-.2919								
40.000	.1902	.2023	.2462	-.0925	-.3711	-.3986	-.3207								
70.000	-.1324	-.4030	-.3787	-.0178	-.2810	-.3129	-.2968								
90.000	-.1073	-.3134	-.1964	-.0938	-.3397	-.3718	-.3243								
103.000		-.0406	-.2132	-.3684	-.4218	-.3731									
110.000															
120.000	-.0703	-.0964	.0304	-.0785	-.4462	-.3682	-.4185	-.2646							
133.000			.3699	.0530	-.4360	-.3635	-.4116	-.2191							
150.000	-.0023	.0230	.2633	.1669	-.3917	-.3923	-.3670								
165.000	.0120	.2081			-.3248	-.4030	-.3102								
180.000	.0178	.0486	.1974	.4264											

WACH (3) = 1.102 ALPHAO(5) = -7.977

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1790	.1670	.1780	.2030	.2920	.3010	.3790	.4990	.3760
PH1															
.000	1.3270	.6837	.3447	.2922	.2934	.0000									
20.000			.3712	.2816	.2903	.2843									
40.000			.4490	.2865	.2543	.2074									
55.000			.3211	.3271	.2530	1.783									
70.000			.3717	.3391	.2520	.2234									
90.000	.7442	.9864	.9977	.2686	.2244	.0413									
100.000		.8648	.4842	.4022	.4082	.2535									
120.000			.6982	.7978	.5829	.3330									
131.000															
156.000															
162.000															
163.000															
168.000															
174.000															
180.000	1.3270	.9348	.7044	.6180	.5689	.9902									
W/LB	.6590	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

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ARC11-716 1A14 OR-712-S1283-AT11 CR6. FURSLAGE

(M81817)

WACH (3) = 1.102 ALPHAO(1) = -7.940

SECTION (1) CRIBITER FURSLAGE DEPENDENT VARIABLE CP

W/L8	.6930	.7000	.7810	.8230	.8820	.9230	.9430	1.0000	1.0210	1.0480
PH1										
.000	.0775	.0928	.1247	.0871	-.3081	-.3633	-.3227	-.2903	-.2931	
40.000	.0441	.0931	.2302	-.2048	-.5664	-.4468	-.3304	-.2349	-.2822	
70.000	.1073	.1263	.1777	.2256	-.0071	.0078	.0066			
90.000	.1204	.1898	.2179	.1997	-.0199	-.0341	-.0467			
105.000		.2701	.1250	-.0664	-.0643	-.0717				
110.000							-.2483			
120.000	.1263	.2687	.2923	.0804	-.1433	-.0326	-.1317	-.2032		
135.000		.7092	.3741	-.1638	-.0316	-.1127				
150.000	.1030	.3473	.6023	.5473	-.0220	-.0136	-.2029			
165.000	.0975		.5907		-.1374	-.0131	-.3021			
180.000	.0944	.3473	.5356	.6802						

WACH (3) = 1.101 ALPHAO(2) = -3.886

SECTION (1) CRIBITER FURSLAGE DEPENDENT VARIABLE CP

W/L8	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5780
PH1															
.000	1.3290	.7149	.3033	.2333	.2398	.0000		-.0130	-.0379	-.1282	-.2064	-.1999	-.0390	.0333	
20.000		.3365	.2322	.2373	.2064		-.3082	-.3031	-.0732	-.1200	-.1904	-.2001	-.0427	.0941	
40.000		.4293	.2418	.2096	.1914		-.1161	-.2623	-.2623	-.5312	-.2999	-.2281	-.1061		
55.000		.4936	.2878	.2077	.1806		.0042	-.2123	-.2123	-.5314	-.4047	-.2060	-.1064		
70.000		.6868	.5330	.3134	.2077	.1806	.0400	-.1197	-.4456	-.4456	-.6938	-.2037	-.1188		
90.000			.5530	.3307	.2167	.2042	-.2774	-.2799	-.4781	-.5751	-.3923	-.2936	-.1048		
120.000		.5973	.4110	.3342	.3683										
140.000		.6079	.3030	.4324	.4732		.4132								
150.000							.7182								
156.000							.4977								
162.000															
169.000															
168.000															
174.000															
190.000	1.3290	.6337	.6030	.3196	.4733	.9182	.9396		-.4607	-.5038	-.3017	-.3098	-.1013		

W/L8	.6930	.7000	.7810	.8230	.8820	.9230	.9430	1.0000	1.0210	1.0480
PH1										
.000	.1169	.1324	.1480	.0341	-.3406	-.3441	-.3014	-.2648	-.2702	
40.000	.0900	.1309	.2841	-.1480	-.5434	-.4128	-.2994	-.2341	-.2904	
70.000	.0348	-.0168	.0933	.1408	-.0322	-.0442	-.0634			
90.000	.0387	.0304	.1313	.1392	-.0678	-.0822	-.0960			
105.000		.2141	.0682	-.0999	-.1112	-.1169				
110.000							-.2588			



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ARC11-716 1A14 01-T12-S12N25+AT11 ORB. FUSELAGE (R81817)

MACH (3) = 1.101 ALPHA(2) = -3.89U

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
1.0.000	.0761	.1967	.2017	.0877	-.1736	-.0875	-.1670	-.2272		
135.000	.9887	.5995	-.1895	-.0719	-.1404					
190.000	.0871	.2811	.5151	.4850	-.0681	.0814	-.2405			
165.000	.0876	.4815		-.1385	.0829	-.3182				
180.000	.0926	.2857	.4696	.5650						

MACH (3) = 1.103 ALPHA(3) = .090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0253	.0470	.0750	-.20	.1590	.1670	.1780	.2050	.2920	.3010	.3790	.4990	.5760
PHI															
.000	1.3360	.7375	.2695	.1755	.1707	.0000		-.0249	.0040	-.0643	-.1175	-.1518	-.0342	.0813	
20.000		.3107	.1611	.1727	.2680			-.1315	.0030	-.0074	-.1041	-.1949	-.1964	-.0253	.1241
40.000		.4096	.1901	.1467	.1381			-.4270		-.1002					
55.000		.4759	.2350	.1409	.1016			-.1123		-.1847	-.4568	-.2764	-.2392	-.1238	
70.000		.5033	.2982	.1290	.1230			.0012		-.1979	-.5321	-.3447	-.2332	-.1167	
90.000		.6546	.4711	.2702	.1358	.1613		.0379		-.1969	-.4994	-.7030	-.2214	-.1167	
120.000			.5223	.3015	.2415	.3115		.2482		-.2866					
140.000			.4992	.3698	.3051	.3918		.3649		-.5279	-.6683	-.4796	-.2642	-.0971	
190.000								.6909		.4300					
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.3360	.7340	.4857	.4046	.3564	.4342		.7955							

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LP	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1561	.1688	.1516	.0092	-.3477	-.3013	-.2814			
40.000	.1410	.1885	.2900	-.0583	-.5210	-.3833	-.2903			
70.000	-.0291	-.1766	-.0884	.1455	-.0652	-.0860	-.1130			
90.000	.0129	-.0970	.0144	.1077	-.1035	-.1337	-.1340			
105.000			.1133	.0432	-.1442	-.1578	-.1624			
110.000										
120.000	.0472	.0983	.1647	.0353	-.2044	-.1358	-.2005			
135.000			.3730	.3411	-.2057	-.1119	-.1880			
150.000	.0803	.2087	.3823	.3982	-.0968	-.1217	-.2691			
165.000	.0867	.3803		-.1306	-.1281	-.3160				
180.000	.0924	.2049	.3779	.4640						

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(R81817)

ARC11-716 1A14 01+T12+S12E5+AT11 CRB. FUSELAGE

MACH (3) = 1.100 ALPHA(4) = 4.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.3170	.7472	.2444	.1571	.1439	.0000		-.0772		-.0024	-.0126	-.0460	-.0624	.0050	.1076
20.000		.2897	.1825	.1477	.2271			-.2108		.0078	-.0860	-.1508	-.1339	-.0062	.1465
40.000		.4047	.1983	.1324	.0854			-.4571		-.0027					
55.000		.4720	.2468	.1342	.0456			-.1571		-.1837	-.4103	-.2632	-.2305	-.1479	
70.000		.4873	.2342	.1155	.0816			-.0537		-.1938	-.4843	-.3063	-.2795	-.1309	
90.000		.6241	.4733	.2460	.0808	.1020		.0032		-.2128	-.4884	-.6221	-.2841	-.1314	
120.000		.4846	.2562	.1474	.2424			.2338		-.3106					
140.000		.4167	.2932	.1965	.3106				.5683		-.7363	-.5383	-.2670	-.0834	
150.000								.6770	.5683						
151.000									.4324						
156.000										-.5863	-.6361	-.4651	-.2897	-.0801	
162.000								.7727							
165.000															
169.000															
174.000						.8064		.7403							
180.000	1.3170	.6445	.3839	.3040	.2442	.3435				-.7670	-.7127	-.4235	-.3037	-.0678	
X/LB	.6930	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.1847	.1981	.1642	.0016	-.3590	-.2901	-.2870			-.2195	-.2246				
40.000	.1791	.2245	.2960	-.0295	-.5225	-.3830	-.2860			-.2161	-.2312				
70.000	-.0870	-.2727	-.2338	.1047	-.1012	-.1577	-.1997								
90.000	-.0437	-.1991	-.0395	.0315	-.1541	-.2080	-.1818								
105.000		.0736	-.0542	-.1900	-.2308	-.2318									
110.000															
115.000															
120.000															
125.000															
130.000															
135.000															
140.000															
145.000															
150.000															
155.000															
160.000															
165.000															
170.000															
175.000															
180.000															

MACH (3) = 1.099 ALPHA(5) = 8.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.3100	.7224	.1990	.1748	.1273	.0000		-.0697		-.0108	-.0023	-.0071	-.0211	.0440	.1308
20.000		.2391	.1607	.1273	.1737			-.1866		-.0057					
40.000		.3833	.1964	.1194	.0314			-.4008		.0320	-.0791	-.0842	-.0587	.0333	.1598
55.000		.4723	.2655	.1361	-.0208			-.1695		.1040					
70.000		.4879	.2642	.1017	-.0032			-.0533		.0028	-.4126	-.2359	-.2026	-.1873	
90.000		.9974	.4384	.2484	.0567	-.0037		.0234		-.1519	-.4081	-.3130	-.2749	-.1643	



ARC11-716 1A14 CRIBBITTER FUSELAGE (RB1817)

MACH (4) = 1.246 ALPHA(1) = -7.940

SECTION (1) CRIBBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.9780
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI	165.000	169.000	174.000	180.000	1.4060	.9619	.7507	.6385	.5904	.6417	1.0550	.9480	.9323	-.2726	-.3669	-.1145	-.1492	-.0915
-----	---------	---------	---------	---------	--------	-------	-------	-------	-------	-------	--------	-------	-------	--------	--------	--------	--------	--------

.9480

1.0550

X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480	-.2656	-.3198	-.1417	-.1992	-.0957
------	-------	-------	-------	-------	-------	-------	-------	--------	--------	--------	--------	--------	--------	--------	--------

-.2656

-.3198

-.1417

-.1992

-.0957

-.2427

-.2017

-.2515

-.2306

-.1412

-.1039

-.0363

-.0442

-.1446

-.2078

MACH (4) = 1.246 ALPHA(2) = -3.840

SECTION (1) CRIBBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.9780
------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI	.000	1.4140	.8348	.5629	.2350	.2436	.0000	-.1153	.1526	-.0906	-.1008	-.1419	-.2317	.0097
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-.1153

.1526

-.0906

-.1008

-.1419

-.2317

.0097

.1196

-.2446

-.1282

-.0705

-.0845

-.0758

-.1730

.0218

-.1279

-.0407

-.4195

-.2518

-.1998

-.1031

-.0487

-.3726

-.3937

-.1998

-.1008

-.0637

-.2947

-.5289

-.2000

-.1153

-.1861

-.3333

-.4518

-.3055

-.2222

-.1232

.3110

.6016

.9903

-.3150

-.3920

-.2292

-.2230

-.1240

.9076

1.0080

.9866

-.4624

-.4386

-.1971

-.2143

-.1158

.9630

1.0020

1.0210

1.0480

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MACH (4) = 1.244 ALPHA(3) = .050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0109	.0663	.1828	.1445	-.2293	-.1176	-.1422	-.1931		
135.000			.2767	.3687	-.1277	-.0967	-.1460			
150.000	-.0324	.1717	.2986	.3709	.0052	-.0344	-.2095			
165.000	-.0412		.3220		-.0698	-.0377	-.2492			
180.000	-.0412	.1522	.3237	.4054						

MACH (4) = 1.249 ALPHA(4) = 4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.4090	.8771	.3022	.1887	.2041	.0000		-.0254		-.2932	-.1481	.0379	-.0025	-.0252	.0866
20.000			.3696	.1658	.2078	.4156		-.2922		-.2080					
40.000			.4995	.2216	.2024	.2351		-.3257		-.2475	-.2025	-.0209	-.0990	-.0948	.1150
55.000			.5614	.2906	.2192	.1364		-.0832		-.2016					
70.000			.5711	.3054	.1903	.1382		.0236		-.0834	-.4478	-.3373	-.1363	-.1471	
90.000		.6879	.5519	.3229	.1487	.1233		.0822		-.0629	-.4023	-.4604	-.1906	-.1332	
120.000			.5216	.3080	.2028	.1902		.3464		-.0719	-.3653	-.5638	-.2618	-.1661	
140.000			.4991	.3390	.2390	.2360				-.3642	-.5592	-.4360	-.3263	-.1232	
150.000								.7772							
156.000									.5460						
162.000										-.4045	-.5020	-.3745	-.3269	-.1067	
165.000															
169.000															
174.000															
180.000	1.4090	.8775	.4184	.3390	.2684	.2318	.9304	.8363		-.5724	-.5313	-.3306	-.3284	-.0957	

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1921	.2306	.2335	.1410	-.2699	-.2709	-.2234		-.1709	-.1776
40.000	.1907	.2599	.3614	.0540	-.4354	-.3991	-.2734		-.1535	-.1694
70.000	-.0676	-.1930	-.2482	-.0389	-.0607	-.1327	-.1241			
90.000	-.0316	-.1241	-.0991	-.0078	-.1290	-.1694	-.1616			
105.000			.0813	-.0303	-.2125	-.1944	-.1788			
110.000										
120.000	-.0230	-.0362	.1544	.1722	-.2992	-.2160	-.1738			
135.000			.4137	.3055	-.1879	-.1176	-.1656			
150.000	-.0112	.1103	.3203	.2963	-.0516	-.0956	-.2463			
165.000	-.0139		.2902		-.0609	-.0893	-.2598			
180.000	-.0148	.1321	.2952	.3663						

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ARC11-716 1A14 0A712+S12E5+AT11 CRB. FUSELAGE

REFERENCE DATA

XREF = 2.4210 SQ.FT. XMRP = 29.5600 INCHES
 YREF = 36.7090 INCHES YMRP = .0000 INCHES
 ZREF = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 RUDDER = .000 SPDRK = .000

MACH (1) = .898 BETA (1) = -8.060

SECTION (1) CRIBTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	1.1460	.9619	.1246	-.0112	.0188	.0000		-.2028		-.2008	-.2231	-.1492	-.0683	.0338	.0913
20.000		.2311	.0747	.0436	.1772			-.2977		-.1914					
40.000		.4640	.1888	.1120	.0749			-.2388		-.1829	-.2456	-.1376	-.0494	.0990	.1869
55.000		.6013	.3540	.2375	.1366			-.0208		-.0511					
70.000		.6419	.5996	.2618	.1812			.0266		-.1225	-.5909	-.1657	-.0044	.0540	
90.000		.6493	.6171	.4070	.2532	.1964		.0369		-.1671	-.5721	-.2502	-.0168	.0435	
120.000			.5515	.5365	.2746	.2772		.2241		-.1706	-.5634	-.6972	-.1143	-.1027	
140.000			.3680	.2715	.2041	.2711				-.2093	-.2744	-.10740	-.4086	-.0607	-.0767
151.000								.5964							
156.000								.6539							
162.000									.3613						
165.000										-.8990	-.9854	-.3434	-.0555	-.0622	
169.000															
174.000							.7995								
180.000								.4219							
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					
PHI	.1408	.1427	.1911	.0516	-.4791	-.3271	-.2844								
40.000		.2433	.4224	.0944	-.6648	-.4093	-.2879								
70.000		-.1681	-.3223	-.0393	.1490	.0498	.0610	-.0475							
90.000		-.1336	-.2378	.0419	.1411	.0239	.0180	-.0932							
105.000			.1621	.0626	-.0219	-.0425	-.1130								
110.000								-.2308							
120.000		-.2066	-.0685	.3631	.1363	-.0402	-.0220	-.0930							
135.000			.4032	.0403	-.0379	-.0120	-.1392								
150.000		-.1164	.0303	.2161	.0769	.0565	.0112	-.2363							
165.000		-.1004	.1927	.1477	-.0063	-.3439									
180.000		-.0615	.0347	.2106	.3401										

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ARC11-716 1A14 01-712-312N23-AT11 ORB. FUSELAGE (R01818)

MACH (1) = .898 BETAO (2) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.1960	.9664	.1307	.0116	.0347	.0000		-.1536		-.1747	-.1980	-.1217	-.0587	.0403	.0870
20.000		.2047	.0637	.0328	.1033			-.2397		-.1850					
40.000		.3667	.1217	.0696	-.0035			-.2337		-.2036	-.3292	-.1331	-.0488	.0706	.1321
55.000		.4628	.2234	.1167	.0254			-.1357		-.1802					
70.000		.4974	.2579	.1307	.0503			-.0865		-.2100	-.7117	-.1680	-.0100	.0376	
90.000		.6847	.4774	.2571	.1155	.0876		-.0635		-.2777	-.6760	-.2420	-.0103	.0374	
120.000			.4685	.2596	.1877	.2214		.1349		-.3016	-.6474	-.4502	-.0288	-.0223	
140.000										-.3705					
150.000			.3818	.2718	.2112	.2665				-.4935	-1.0680	-.4064	.0325	-.0132	
151.000															
156.000								.2563							
162.000								.9979							
165.000															
169.000								.6532							
174.000							.7789								
180.000	1.1960	.6022	.3131	.2363	.2048	.2557				-.11020	-.9014	-.2074	.0169	-.0091	

MACH (1) = .897 BETAO (3) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.2300	.1224	.1116	-.0139	-.3979	-.3070	-.2811			-.2073	-.1947				
40.000		.1240	.1511	.3992	.0041	-.6079	-.3551	-.2544		-.2264	-.2341				
70.000		-.1801	-.2839	-.1076	.0493	-.0425	.0006	-.0786							
90.000		-.1148	-.1960	-.0262	.0280	-.0636	-.0437	-.1203							
105.000			.0858	-.0637	-.1103	-.0986	-.1417								
110.000								-.2496							
120.000		-.0987	-.0367	.2411	-.0203	-.1078	-.0883	-.1441							
135.000			.4731	.0619	-.1048	-.0824	-.1804								
150.000		-.0409	.0701	.2772	.1244	-.0975	-.1016	-.2710							
165.000		-.0288	.2349		-.0773	-.1205	-.2978								
180.000	-.0165	.0782	.2284	.3802											



ARC11-716 1A14 ORBITER FUSELAGE (RB1B18)

MACH (1) = .997 BETAO (3) = .030

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
120.000		.3712	.1480	.1000	.1415		.0196			-.4761	-.7433	-.3432	.0241	.0051	
140.000										-.5630					
190.000		.3923	.2444	.1650	.2304					-.9236	-1.0160	-.3000	.0372	.0031	
151.000									.1532						
196.000							.5107								
162.000									.2347						
165.000							.6235								
189.000						.7353									
174.000															
190.000	1.2170	.6004	.3265	.2993	.2175	.2747		.9934		-.9962	-1.0280	-.1536	.0269	.0120	
W/LB	.6530	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
40.000		.0696	.0636	.0115	-.2056	-.3199	-.2719	-.2632		-.2134	-.2069				
70.000		.0699	.0991	.1702	-.1843	-.4646	-.2902	-.2531		-.2149	-.2199				
90.000		-.1926	-.2308	-.1573	-.0363	-.2204	-.0710	-.1220							
105.000		-.1021	-.1623	-.0695	-.0799	-.2669	-.1093	-.1623							
110.000															
120.000		-.0409	-.0036	.1032	-.1628	-.3445	-.1711	-.1922							
135.000															
190.000		-.0082	.0790	.3177	.1868	-.3130	-.2266	-.3033							
195.000		-.0022	.2551			-.2151	-.2556	-.2771							
180.000		-.0044	.0614	.2404	.4263										

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000		1.1890	.9531	.0910	.0109	-.0063	.0000			-.1700	-.2116	-.1531	-.0737	.0072	.0356
40.000										-.2016	-.2348	-.3249	-.1629	-.0735	.0264
55.000										-.3023	-.3668	-.6564	-.2102	-.0169	.0166
70.000										-.5284	-.8520	-.3293	.0104	.0166	
90.000		.2867								-.6460	-.8675	-.4266	.0099	.0032	
120.000										-.6909					
140.000										-.1.0210	-1.0330	-.2464	.0167	-.0032	
150.000															
151.000									.0217						
156.000															
162.000															

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ARC11-716 1A14 01.112+512+9+AT11 CRG. FUSLAGE (RB1818)

MACH (1) = .898 BETAO (4) = 4.100

SECTION (1) ORBITER FUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
165.000															
169.000															
174.000															
180.000	1.1870	.9805	.5366	.2307	.2043	.2574	.7036	.5684		-1.1290	-.9179	-.1864	.0109	-.0085	
W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0763	.0680	.0208	-.1093	-.3065	-.3228	-.2887								
40.000	.0446	.0388	.0637	-.3917	-.4494	-.2927	-.2333								
70.000	-.1331	-.2055	-.1906	-.0962	-.3684	-.1827	-.1593								
90.000	-.0680	-.1305	-.1381	-.1429	-.4191	-.2247	-.1869								
105.000															
110.000															
120.000	-.0378	-.0082	-.0323	-.3517	-.5588	-.3334	-.2277								
135.000															
150.000	-.0138	.0788	.3401	.2271	-.4914	-.3010	-.3327								
165.000	-.0170		.2347												
180.000	-.0109	.0754	.2271	.4237											

-.9556 -1.0090 -.1844 .0164 -.0128
-.1997 -.1809

-.2164 -.1996
-.2474

MACH (1) = .898 BETAO (5) = 8.130

SECTION (1) ORBITER FUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1030	.4084	.0293	-.0357	-.0307	.0000									
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
174.000															
180.000	1.1030	.4194	.2895	.1981	.1300	.2185	.2978	.4920							
W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
174.000															
180.000	1.1030	.4194	.2895	.1981	.1300	.2185	.2978	.4920							

-.2464 -.2664 -.2249 -.1472 -.0662 -.0336
-.2752
-.2948 -.3762 -.2410 -.1472 -.0253 .0363
-.3467
-.4580 -.3062 -.3658 -.0512 -.0034
-.6310 -.9017 -.4719 -.0467 .0135
-.8028 -.5442 -.4577 -.0744 -.0069
-1.0970
-1.0700 -.7439 -.4108 -.0543 -.0558
-.1490

.0037
.2302

.4802
.9978

ARC11-716 IAI4 06-112-SIDMS-AT11 CRB. PUSLAGE (R01918)

WACH (1) = .096 BETAO (3) = 6.130

SECTION (1) ORBITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0211	.0179	-.0062	-.1830	-.4019	-.3314	-.3111			
40.000	.0236	.0179	.0734	-.4297	-.4723	-.2942	-.2643			
70.000	-.1106	-.1825	-.1281	-.1474	-.4170	-.2339	-.1634			
90.000	-.0718	-.1187	-.1704	-.2096	-.4466	-.2940	-.2410			
105.000			-.1099	-.2874	-.4881	-.3522	-.2580			
113.000										-.2306
120.000	-.0447	-.0199	-.1477	-.5325	-.6531	-.4884	-.3016			-.2875
133.000			.2942	-.1182	-.8422	-.7680	-.3793			
150.000	-.0490	.0363	.3140	.3278	-.5769	-.8937	-.4810			
163.000	-.0803		.2375		-.3933	-.6398	-.3109			
180.000	-.0742	.0362	.2122	.3741						

WACH (2) = .078 BETAO (1) = -8.050

SECTION (1) ORBITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1180	.1590	.1870	.1780	.2030	.2380	.3010	.3790	.4990	.5760
PHI															
.000	1.1908	.6182	.1823	.0430	.0827	.0000									
20.000		.2940	.1136	.0976	.2827										
40.000		.5079	.2233	.1343	.1381										
55.000		.6436	.3666	.2724	.1937										
70.000		.8880	.4330	.2987	.2541										
90.000		.8832	.3641	.4436	.2494										
120.000		.6001	.3907	.3185	.3391										
140.000		.4497	.3275	.2394	.3323										
150.000															
151.000															
156.000															
162.000															
169.000															
188.000															
174.000															
180.000	1.1800	.6378	.3239	.2323	.2211	.2789									
180.000	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

WACH (2) = .078 BETAO (1) = -8.050

SECTION (1) ORBITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1180	.1590	.1870	.1780	.2030	.2380	.3010	.3790	.4990	.5760
PHI															
.000	.1938	.2043	.2132	.1407	-.6874	-.3774	-.3082								
40.000	.2377	.3203	.5022	.1991	-.8728	-.5422	-.3439								
70.000	-.0674	-.2963	-.0223	.1619	.0028	.0993	.0072								
90.000	-.0412	-.2311	.0382	.1685	-.0331	.0612	-.0308								
105.000			.1912	.0988	-.1227	.0130	-.0321								
110.000															



ARC11-716 1A14 01-712-S12M2-AT11 CRB. FUELAGE

(R01010)

MACH (2) = .976 BETAO (1) = -0.090

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

M/LB	.6930	.7500	.7910	.8230	.8620	.9230	.9430	1.0020	1.0210	1.0480
PHI										
180.000	-1.198	-1.1230	.3620	.1904	-1.102	.0336	-0.366	-1.2208		
135.000			.4596	.1092	.0149	.0494	-0.752			
130.000	-0.366	.0708	.2996	.1259	.0637	.0672	-1.2123			
165.000	-0.420		.2921		-1.2555	.0494	-1.3532			
190.000	-0.216	.0990	.2746	.3071						

MACH (2) = .976 BETAO (2) = -4.010

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.3790
PHI															
180.000	1.2310	.65:1	.1708	0.487	0.685	0.000		-1.1491		-1.628	-1.256	-1.056	0.688	.1371	
20.000		.2414	0.802	0.788	1.982			-1.256		-1.409		-1.331	.1179	.2109	
40.000		.4021	1.443	0.906	0.660			-1.3464		-1.171	-1.997	-1.293	.1179	.2109	
55.000		.3002	2.488	1.453	0.751			-1.441		-1.441	-1.997	-1.3463	-1.3048	.1219	
70.000		.5345	2.923	1.940	1.026			-1.0779		-1.441	-1.997	-1.4037	-1.3556	.1252	
90.000	.7508		3.224	2.924	1.482	1.333		-0.324		-2.023	-1.971	-1.4037	-1.3556	.1252	
120.000		.3146	3.022	2.243	2.688			.2109		-2.179	-1.9235	-1.7884	-1.3950	.0777	
140.000										-2.258					
150.000		.4301	3.044	2.480	.3175				.3454	-1.922	-1.6971	-1.8718	-1.3702	.1048	
191.000								.6885							
194.000															
182.000								.7220							
183.000															
174.000															
160.000	1.2310	.6475	.3996	.2809	.2447	.3065	.6333	.6110							
M/LB	.6930	.7500	.7910	.8230	.8620	.9230	.9430	1.0020	1.0210	1.0480					

MACH (2) = .976 BETAO (2) = -4.010

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.3790
PHI															
180.000	1.2310	.6475	.3996	.2809	.2447	.3065	.6333	.6110							
40.000	.1828	.1796	.1684	.0829	-1.2636	-1.3443	-1.3067								
70.000	.1916	.2643	.4254	1.066	.6599	.4825	-1.3410								
90.000	-0.366	-1.2983	-0.288	.1275	-1.1822	-0.413	-0.519								
105.000	-0.186	-1.1535	.0485	.1107	-1.2110	-1.194	-0.812								
110.000		.1969	.0362	-1.2625	-1.1957	-1.1022									
120.000	-0.175	.0210	.3073	.6813	-1.2797	-1.694	-1.040								
135.000		.5312	1.090	-1.2171	-1.094	-1.1882									
190.000	.0366	.1387	.3341	.2127	-1.241	-0.634	-1.168								
165.000	.0489		.3123		-1.2375	-0.925	-1.3632								
190.000	.0817	.1544	.3101	.4360											

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ARC11-11C 1A14 CH-T12+S12MS-AT11 CRB. PUSBLAGE (R01010)

MAOM (2) = .075 BETA0 (3) = .040

SECTION (1) CRIBETER PUSBLAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1790	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.2440	.6226	.1512	.1013	.0425	.0000	-.1854	-.1360	-.2133	-.2134	-.1010	.0709	.1190	
20.000		.1922	.0393	.0736	.0649			-.2473	-.1474						
40.000		.2676	.0634	.0139	-.0235			-.4334	-.1514	-.2666	-.3703	-.1341	.0902	.1361	
55.000		.3502	.1069	.0100	-.0381			-.3263	-.1693						
70.000		.3615	.1312	.0075	-.0124			-.1660	-.3010	-.6703	-.4434	-.2553	.1130		
90.000		.5493	.3548	.1543	.0238			-.1394	-.3970	-.6564	-.3193	-.1762	.1272		
120.000		.4114	.1672	.1900				.0930	-.3510	-.6748	-.8444	-.1331	.1201		
140.000		.3930	.2737	.1936	.2749				-.4616	-.6667	-.6763	-.2360	.1296		
151.000							.2444								
156.000							.3610								
162.000								.3247		-.7672	-.7691	-.5652	-.2066	.1272	
163.000															
169.000							.6623								
174.000															
180.000	1.2440	.6426	.3733	.2912	.2437	.3171	.6093	.6633	-.6603	-.6836	-.5347	-.3407	.1336		
W/LB	.6930	.7900	.7610	.6230	.6420	.9230	.9430	1.0000	1.0210	1.0480					

SECTION (1) CRIBETER PUSBLAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1790	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.2190	.3971	.1333	.0647	.0291	.0000	-.2263	-.1471	-.2342	-.2327	-.1223	.0363	.0639	
20.000		.1422	.0233	.0037	-.0301			-.3186	-.1367						
40.000		.1902	.0276	-.0531	-.1273			-.3473	-.1898	-.3161	-.3113	-.1362	.049	.1111	
55.000		.2733	.0271	-.0983	-.1237			-.4063	-.2773						
70.000		.2462	.0106	-.1136	-.0934			-.2863	-.3763	-.7423	-.3212	-.0933	.0969		
90.000		.3549	.2329	.0373	-.1144	-.0793		-.2237	-.3014	-.7743	-.6283	-.0944	.1242		

MAOM (2) = .076 BETA0 (4) = 4.070



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TABLATED PRESSURE DATA - 1A14A - VOL. 3

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ARC11-716 1A14 01-112-512N25-AT11 CRB. FUSELAGE (RB1210)

MACH (2) = .976 BETA (4) = 4.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.2710	.3790	.4990	.5760
PHI															
120.000		.3083	.1063	.0129	.0916										
140.000															
150.000		.3387	.2299	.1405	.2136										
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.2190	.6105	.3820	.2919	.2390	.3032	.7793	.6400							
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

120.000		.1251	.0704	-.1335	-.4700	-.3708	-.3059								
40.000		.0957	.0825	-.3689	-.4973	-.3572	-.2702								
70.000		-.0343	-.1145	-.0796	.0130	-.2726	-.3030	-.3103							
90.000		.0105	-.0373	-.0290	-.0266	-.3016	-.3417	-.3437							
105.000			.0413	-.0991	-.3431	-.3763	-.3790								
110.000															
120.000	.0561	.0869	.0694	-.2363	-.4178	-.3666	-.4516	-.3111							
135.000		.4973	.1407	-.5170	-.3829	-.4449									
150.000	.0729	.1627	.3934	.3603	-.3666	-.4213	-.4367								
165.000	.0701	.3348		-.2633	-.4282	-.3227									
180.000	.0677	.1969	.3126	.4583											

MACH (2) = .974 BETA (5) = 6.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI																
20.000		.11580	.5437	.0693	.0469	.0196	.0000									
40.000				.0642	-.0272	-.0244	-.1543									
55.000				.0543	-.0621	-.0943	-.2431									
70.000				.0732	-.0699	-.1633	-.1966									
90.000		.1261		.1093	-.0954	-.1975	-.1399									
120.000				.1294	-.0785	-.2032	-.1373									
140.000				.1806	.0029	-.1144	-.0194									
150.000				.2424	.1661	.0724	.1236									
151.000																
156.000																
162.000																

.3260

.1139

ARC11-716 1A14 01-712-S12M25-AT11 CRB. FUSELAGE (R81818)

WAO1 (2) = .974 BETA0 (5) = 0.120

SECTION (1) CRIBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PH1																
135.000																
169.000																
174.000																
190.000	1.1360	.5993	3.446	2.572	2.021	2.627	.6761									
X/LB	.6530	.7500	.7610	.6250	.6620	.9230	.9630	1.0020	1.0210	1.0480						
PH1																
.000	.0608	.0695	.0821	-.1836	-.4626	-.3602	-.3153									
40.000	.0663	.0695	.1287	-.3796	-.5243	-.3966	-.2696									
70.000	-.0267	-.0909	-.1039	-.0492	-.3344	-.3012	-.2648									
90.000	.0065	-.0340	-.0666	-.0933	-.3627	-.3311	-.3183									
105.000			-.0012	-.1536	-.4046	-.3974	-.3638									
110.000																
120.000	.0310	.0684	-.0094	-.3407	-.4925	-.4243	-.4639									
135.000			3.498	.0103	-.6686	-.6290	-.5701									
150.000	.0268	.1243	3.594	3.975	-.4375	-.5328	-.5268									
165.000	.0063		3.206		-.3026	-.5164	-.5165									
180.000	-.0176	.0984	2.783	4.239												

WAO1 (3) = 1.102 BETA0 (1) = -0.090

SECTION (1) CRIBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PH1																
20.000																
40.000																
55.000																
70.000																
90.000	.9744															
105.000																
140.000																
151.000																
156.000																
162.000																
169.000																
174.000																
180.000	1.2400	.7130	4.095	3.467	3.163	3.687	.9247									
X/LB	.6930	.7360	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480						
PH1																
20.000																
40.000																
55.000																
70.000																
90.000																
105.000																
140.000																
151.000																
156.000																
162.000																
169.000																
174.000																
180.000																

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ARC11-71C 1A14 01*112+S12N25*AT11 ORB. FUSELAGE (RB1B18)

MACH (3) = 1.100 BETA0 (2) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0151	-.0199	.2902	.1893	-.1633	-.0670	-.1348	-.0788		
135.000		.5474	.2854	-.1315	.0202	-.0932				
150.000	.0632	.1641	.3996	.3106	-.0328	.0453	-.1978			
165.000	.0604	.3791		-.1887	.0375	-.2697				
180.000	.1000	.2139	.3755	.4327						

MACH (3) = 1.102 BETA0 (3) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3320	.7277	.2699	.1622	.1755	.0000	-.0203	-.0084	-.0787	-.1181	-.1923	-.0366	.0791		
20.000		.3055	.1896	.1755	.2722		-.1547	-.0046							
40.000		.4152	.1920	.1957	.1492	-.4331	-.0204	-.1037	-.1906	-.1925	-.0280	.1199			
55.000		.4900	.2457	.1474	.1112	-.1157	-.1144								
70.000		.5097	.2695	.1462	.1290	.0025	-.1839	-.4998	-.2790	-.2586	-.1225				
90.000	.0640	.4767	.2820	.1505	.1880	.0411	-.1980	-.5315	-.3438	-.2489	-.1164				
120.000		.5283	.3114	.2312	.3203	.2323	-.1935	-.4540	-.6976	-.2178	-.1174				
140.000							-.2784								
150.000		.9097	.3969	.5179	.3969		-.5201	-.6637	-.4746	-.2646	-.0987				
151.000						.3904									
156.000						.6955									
162.000															
165.000															
169.000															
174.000						.7971									
180.000	1.3320	.7371	.4925	.4103	.3628	.4371	.9036								
X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.1502	.1677	.1921	.0172	-.3508	-.3081	-.2809								
40.000	.1368	.1895	.3010	-.0504	-.3220	-.3961	-.2906								
70.000	-.0218	-.1777	-.0483	.1528	-.0816	-.0850	-.1072								
30.000	.0189	-.7919	.0239	.1188	-.1002	-.1286	-.1280								
105.000			.1211	.0469	-.1435	-.1496	-.1547								
110.000															
120.000	.0474	.1144	.1883	.0729	-.2022	-.1265	-.1950	-.2971							
135.000			.3775	.3494	-.1958	-.1019	-.1791	-.2459							
150.000	.0805	.2500	.3855	.4044	-.0950	-.1142	-.2600								
165.000	.0812	.3880	.3880	-.1701	-.1203	-.3192									
180.000	.0867	.2175	.5819	.4713											

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DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 5

ARC11-716 1A14 ORBITER FUSELAGE (RB1818)

MACH (3) = 1.100 BETA (4) = 4.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI	1.3090	.6942	.2290	.1606	.1524	.0000		-.0689		-.0045	-.0936	-.0791	-.1399	-.01724	.0345
20.000		.2396	.1451	.1355	.1496			-.2132		-.0193					
40.000		.2869	.1401	.0776	.0476			-.2654		-.0708	-.1476	-.2692	-.2694	-.0396	.0560
55.000		.3346	.1432	.0435	.0458			-.2155		-.1245					
70.000		.3675	.1432	.0315	.0751			-.0986		-.2718	-.5486	-.3622	-.2900	-.0653	
80.000		.4833	.3714	.1749	.0328	.0848		-.0518		-.5002	-.6290	-.4445	-.2578	-.0581	
120.000		.4261	.2551	.411	.2217			.1314		-.3314	-.5681	-.7787	-.2578	-.0838	
140.000			.4510	.3465	.2541	.3330				-.5331					
150.000									.2700	-.6024	-.6456	-.4196	-.3786	-.1120	
156.000								.5847							
156.000									.5698						
162.000										-.5397	-.6736	-.3794	-.3993	-.1249	
165.000								.7362							
169.000							.8771		.7476						
174.000		1.3090	.7093	.4916	.4008	.3483	.4196			-.6682	-.9995	-.3768	-.3104	-.1275	
180.000		.6930	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480				

PHI	.000	.1216	.1414	.1247	-.0605	-.4110	-.3438	-.2837		-.2442	-.2296				
40.000		.0807	.1110	.1516	-.3230	-.4699	-.3601	-.2477		-.2124	-.2280				
70.000		.0196	-.0943	-.0087	.1132	-.1172	-.1514	-.1661							
90.000		.0609	-.0069	.0416	.0750	-.1483	-.1887	-.1961							
105.000			.1302	-.0035	-.1917	-.2187	-.2203								
110.000		.1044	.1419	.1047	-.1017	-.2978	-.2189	-.2763							
120.000			.4323	.2905	-.3493	-.2785	-.2930								
135.000		.1139	.2205	.4101	.4230	-.1799	-.2680	-.3968							
150.000		.1128	.3694		-.1745	-.2485	-.3578								
160.000		.1044	.2128	.3612	.4477										

MACH (3) = 1.100 BETA (5) = 6.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI	1.2310	.6334	.1544	.0909	.1079	.0000		-.1635		-.0943	-.2910	-.2406	-.1629	-.1566	-.0496
20.000		.1278	.0578	.0835	.0266			-.1132		-.1308					
40.000		.1291	.0330	.0391	-.0749			-.1878		-.1660	-.2400	-.3733	-.2626	-.0936	.0129
55.000		.1863	.0023	-.0149	-.0288			-.2939		-.1860					
70.000		.2086	.0006	-.0483	.0121			-.2148		-.3142	-.4238	-.4751	-.3079	.0039	
90.000		.2090	.2370	.0264	-.0588	.0197		-.1735		-.4123	-.7040	-.5396	-.2732	-.0169	

DATE 09 DEC 74

TABULATED PRESSURE DATA - 1A14A - VOL. 3

MC11-716 1A14 CR-T18-31825-AT11 CRB. FUSELAGE

(RB1818)

WMOH (3) = 1.100 BETMO (5) = 0.130

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2050	.2350	.3010	.3790	.4990	.5760
PHI															
120.000			.2865	.1059	.0066	.0936									
140.000															
150.000			.3376	.2813	.1729	.2385									
171.000															
196.000															
165.000															
169.000															
174.000															
190.000	1.2310	.0185	.4360	.3459	.2942	.3650									
W/LB	.6990	.7500	.7910	.8230	.8660	.9230	.9630	1.0020	1.0210	1.0480					

PHI															
.000	.0383	.0921	.0940	-.1505	-.3951	-.3648	-.3511								
40.000	.0599	.0908	.1605	-.2596	-.4972	-.3725	-.2742								
70.000	-.0179	-.0354	.0355	.1237	-.1449	-.1927	-.2104								
90.000	.0257	.0371	.0500	.0784	-.1799	-.2430	-.2417								
105.000			.1236	.0090	-.2199	-.2363	-.2722								
110.000															
120.000	.0475	.1359	.0829	-.1822	-.5132	-.2801	-.3521								
135.000			.2760	.2141	-.4874	-.4982	-.5160								
150.000	.0480	.1753	.3434	.3024	-.2497	-.3644	-.4936								
165.000	.0495		.3466		-.1902	-.3340	-.3524								
180.000	.0471	.1110	.3324	.4413											

WMOH (4) = 1.252 BETMO (1) = -0.090

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2050	.2350	.3010	.3790	.4990	.5760
PHI															
.000	1.3390	.6401	.3960	.1949	.1266	.0000									
20.000			.9116	.2314	.1375	.5224									
40.000			.7423	.3754	.2036	.3926									
55.000			.8384	.5404	.3430	.3516									
70.000			.8776	.5619	.3745	.3610									
90.000	1.0770	.8339	.5965	.3741	.3796										
120.000			.7333	.4935	.3746	.4342									
140.000			.5916	.4033	.3260	.4326									
150.000															
151.000															
156.000															
162.000															

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(P81818)

VC11-716 1A14 01+T12+S12M3+AT11 CRG. FUSELAGE

WACH (4) = 1.244 BETA(2) = -4.030

SECTION (1) CRITTER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6330	.7300	.7610	.8230	.8220	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.000	.1791	.2376	.2609	.2992	-.4747	-.3121	-.2651		-.1308	-.2053
40.000	.2116	.3013	.3335	.3105	-.4992	-.4236	-.3662		-.1911	-.2005
70.000	-.0372	-.1731	-.2200	.0463	-.0087	-.0518	-.0356			
90.000	-.0356	-.0995	-.1159	.0662	-.0486	-.0954	-.0548			
103.000		.1102	.0312	-.0992	-.1376	-.1043				
110.000										
120.000	-.0927	-.0816	.2224	.2753	-.1662	-.0655	-.0810			
135.000		.4331	.3023	-.1045	.0241	-.0236				
150.000	-.0673	.0145	.3256	.2922	.0783	-.1121				
165.000	-.0682	.3214		-.0143	.0868	-.1635				
180.000	-.0624	.1267	.3059	.3497						

WACH (4) = 1.248 BETA(3) = .030

SECTION (1) CRITTER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4950	.3760
PHI															
.000	1.4820	.9885	.3337	.1913	.2064	.0000		-.1310		-.3463	.0444	-.0512	-.1328	-.1519	.0395
20.000		.4095	.2045	.1936	.4175			-.2746		-.1672			-.1672		
40.000		.3106	.2393	.1963	.2310			-.3040		-.2190	.0337	-.0600	-.1050	-.1628	.0635
55.000		.5775	.3216	.2127	.1684			-.0290		-.1632					
70.000		.3972	.3417	.2122	.1623			.0696		-.0659	-.4354	-.2661	-.1624	-.1231	
90.000		.7348	.3872	.3316	.1697	.1595		.1108		-.0633	-.3632	-.4260	-.2059	-.1115	
120.000		.3982	.3816	.2700	.3139			.3320		-.0747	-.3250	-.3441	-.2300	-.1365	
140.000		.3448	.4232	.3237	.4046					-.1759	-.3269	-.3037	-.3686	-.2608	-.1374
150.000								.6845							
151.000								.7676							
156.000								.3641							
162.000										-.3366	-.4374	-.3048	-.2755	-.1371	
165.000								.6604							
169.000						.9378									
174.000								.6326							
180.000	1.4820	.7565	.5121	.4248	.3387	.4382				-.3238	-.4829	-.2673	-.2692	-.1229	

WACH (4) = 1.248 BETA(3) = .030

SECTION (1) CRITTER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6930	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.000	.1448	.1843	.2096	.1294	-.2976	-.2710	-.2396		-.1963	-.2096
40.000	.1324	.1900	.3315	-.0197	-.3674	-.2686			-.1721	-.1940
70.000	-.0400	-.1435	-.1312	.0743	-.0248	-.0798	-.0699			
90.000	-.0139	-.0736	-.0075	.0360	-.0716	-.1114	-.0922			
105.000		.1056	.0158	-.1248	-.1248	-.1232				
110.000										

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MACH (4) = 1.249 BETA0 (3) = .030

MACH (4) = 1.246 BETA0 (4) = 4.090

ARC11-716 1A14 OR-T12-S12P5-AT11 CRB. PUSBLAGE (M81818)

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0136	.0586	.1763	.1546	-.2208	-.1078	-.1360	-.1899		
135.000		.2809	.3787	-.1194	-.0661	-.1357				
150.000	-.0330	.1631	.3073	.3611	.0170	-.0409	-.2007			
165.000	-.0424	.3227		-.0070	-.0245	-.2419				
180.000	-.0416	.1393	.3256	.4113						

MACH (4) = 1.246 BETA0 (4) = 4.090

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1360	.1670	.1780	.2030	.2520	.3010	.3750	.4990	.5760
PHI															
.000	1.3690	.8165	.2875	.1993	.1951	.0000	-.0667	-.0667	.0001	-.0664	-.1293	-.1762	-.0615	-.0024	
20.000		.3007	.1432	.1612	.2976		-.1997	-.1997	-.0713	-.1359	-.0421	-.1300	-.1676	-.0616	.0286
40.000		.3566	.1642	.1563	.1599		-.3923	-.3923	-.2323	-.1356	-.4630	-.3268	-.2807	-.1154	
55.000		.4060	.1822	.1445	.0807		-.1107	-.1107	-.0160	-.1356	-.4630	-.3268	-.2807	-.1154	
70.000		.4376	.1933	.1260	.0612		-.0325	-.0325	-.1472	-.4555	-.4957	-.2581	-.1090		
90.000	.9178	.4131	.2224	.1136	.0625		-.2322	-.2322	-.1806	-.4113	-.6064	-.3292	-.1236		
120.000		.4617	.2869	.1864	.2251				-.3509	-.4161	-.4680	-.3371	-.3293	-.1469	
140.000		.4649	.3631	.2609	.3362				.3607						
150.000									.6646						
160.000									.4751						
162.000										-.3613	-.5026	-.2964	-.2944	-.1663	
165.000															
169.000															
174.000															
180.000	1.3690	.7282	.9139	.4234	.4112	.9463	.6309	.6309	-.4643	-.4408	-.3123	-.2756	-.1759		

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1103	.1508	.1951	.0077	-.3960	-.2570	-.2439		-.1930	-.1925
40.000	.0644	.1131	.1765	-.2749	-.4104	-.2689	-.2115		-.1752	-.1758
70.000	-.0292	-.1241	-.1043	.0624	-.0515	-.0339	-.0665			
90.000	.0063	-.0319	.0161	.0155	-.0945	-.0982	-.0901			
105.000		.1100	-.0154	-.1437	-.1129	-.1167				
110.000										
120.000	.0103	.0770	.1034	-.0336	-.2962	-.1464	-.1630	-.2049		
135.000		.3427	.3468	-.2313	-.2230	-.2200				
150.000	-.0267	.1506	.3280	.4025	-.0328	-.1491	-.2917			
165.000	-.0303	.3231		-.0183	-.1204	-.2851				
180.000	-.0637	.1246	.3213	.3936						

MFC11-716 1A14 01-712-812MS-AT11 CRG. FUSELAGE (R81818)

WACH (4) = 1.246 BETAD (5) = 6.130

SECTION (1) CRIBITER FUSELAGE		DEPENDENT VARIABLE CP													
W/LB	0.000	0.080	0.230	0.470	0.700	1.120	1.590	1.670	1.793	2.050	2.920	3.010	3.790	4.990	5.760
PH1	0.000	1.3070	.7511	.1932	-.0096	.1545	.0000	-.2191	.0326	-.1456	-.2240	-.2063	-.1396	-.0903	
20.000				.1267	.0136	.1540	.1701	-.2196	.0321	-.0838	-.1840	-.2439	-.0663	-.0007	
40.000				.1000	.0424	.1184	.0972	-.2399	-.2305	-.2305	-.2210	-.5320	-.3873	-.3133	-.0433
55.000				.2170	.0320	.0829	.0073	-.0827	-.2471	-.5307	-.5336	-.2629	-.0676		
70.000				.2062	.0447	.0114	.0071	-.0272	-.2722	-.4808	-.6650	-.4333	-.1179		
90.000		.2491		.2979	.0848	-.0177	-.0229	.1321	-.4494						
120.000				.3414	.1063	.0536	.0625		-.4326	-.5413	-.3397	-.3603	-.2797		
140.000				.3717	.2988	.1923	.2122	.2473							
150.000								.2676							
156.000								.4033							
162.000								.7636							
168.000								.7927							
174.000								.8743							
180.000	1.3070	.6806	.4534	.3682	.2908	.1391			-.4412	-.4406	-.3490	-.3083	-.3074		
PH1	.670	.1076	.1253	-.1232	-.4379	-.3076	-.2804	-.2310	-.2074						
40.000		.0899	.1614	-.2433	-.4429	-.3336	-.2321	-.2083	-.2068						
70.000		-.0371	-.1294	.0917	.1092	-.0472	-.1173	-.1324							
90.000		-.0012	-.0605	-.0113	.0814	-.0934	-.1455	-.1768							
105.000				.0724	-.0057	-.1324	-.1763	-.2040	-.2321						
110.000								-.2376							
120.000		-.0246	.0641	.0660	-.0833	-.2392	-.2103	-.2364							
135.000				.1337	.2977	-.3211	-.3441	-.3767							
150.000		-.0023	.1432	.2141	.3723	-.0866	-.2278	-.2461							
165.000		-.0238		.2279											
180.000	-.0680	.0913	.2440	.3392	-.0334	-.1816	-.2661								

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DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3
 ARC11-716 1A14 04+712+312E5+AT1C ORB. FUSELAGE (R61924) (29 SEP 73)

REFERENCE DATA
 SREF = 2.4210 30.FT. WREF = 29.9800 INCHES
 LREF = 34.7050 INCHES YREF = .0000 INCHES
 DREF = 30.7090 INCHES ZREF = .0000 INCHES
 SCALE = .0300 SCALE

MACH (1) = .902 BETAO (1) = -9.690

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1760	.2050	.2360	.3010	.3790	.4990	.5760
PHI	.000	1.1030	.4288	.1133	.0996	.2089	.0000	-.4146	-.2637	-.3020	-.2764	-.1692	-.1492	-.0434	.0021
80.000				.1968	.1444	.1658	-.3182	-.3394	-.2901	-.2462	-.1531	-.1018	.0917	.1040	
40.000				.4336	.2099	.1696	-.0292	-.3208	-.1723	-.1261	-.4048	-.0037	.0947	.1641	
95.000				.6307	.3990	.2658	.1175	-.0762	-.1261	-.1605	-.5146	-.0333	.0736	.1529	
70.000				.7336	.3008	.3563	.2219	.0382	-.0711	-.0492	-.4382	-.1948	.0301	.0987	
90.000		.9907		.7646	.5910	.3900	.2916	.0690	-.1359	-.6094	-.0797	-.0141	.0353		
120.000				.7720	.5719	.4870	.4537	.3117							
140.000				.6438	.9231	.4390	.4716	.4610							
191.000								.7901							
194.000								.4961							
162.000									-.6168	-.6903	-.0928	-.0687	-.0068		
169.000								.7494							
174.000					.4053	.3768	.3847	.4723							
160.000	1.1090	.7038		.6809			.8446								
W/LB	.6930	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					

PARAMETRIC DATA

ALPHAO = -10.000 ELEVON = .000
 RUDDER = .000 SPOSRK = .000

PHI	.000	.0411	.1081	.2083	.2472	-.3606	-.3501	-.3554
40.000		.0473	.1035	.4178	-.0967	-.3584	-.3704	-.3448
70.000		.1085	.0764	.1484	.2422	.1802	.0935	-.0294
90.000		.1305	.1237	.2034	.2412	.1033	.0648	-.0612
105.000			.2922	.1801	.0696	.0132	-.0789	
110.000								-.2416
120.000	.1210	.1992	.3063	.1878	.0631	.0379	-.0545	-.1677
135.000			.3739	.2701	.1199	.3997	-.0325	
150.000	.0968	.2019	.3642	.2624	.2198	.1323	-.1812	
165.000	.0348	.3114	.3114	.3148	.1301	.3375		
153.000	.0249	.1292	.3036	.4766				

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TALANTED PRESSURE DATA - 1A14A - V.L. 3

(861824)

ARC11-716 1A14 01-112-2125-A110 ORG. FUSELAGE

MACH (1) = .699 GETAD (2) = 10.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1700	.2090	.2300	.3010	.3790	.4990	.5760
PHI															
.000	1.0390	.3360	.0026	.0647	.1572	.0000									
20.000															
40.000															
60.000															
80.000															
100.000															
120.000															
140.000															
160.000															
180.000															
200.000															
X/LB	1.0390	.6737	.4930	.4025	.3514	.3707									
PHI															
.000	.6330	.7300	.7810	.8230	.8620	.8830	.9630	1.0020	1.210	1.0480					
20.000															
40.000															
60.000															
80.000															
100.000															
120.000															
140.000															
160.000															
180.000															
200.000															

PHI															
.000															
20.000															
40.000															
60.000															
80.000															
100.000															
120.000															
140.000															
160.000															
180.000															
200.000															
X/LB															
PHI															
.000															
20.000															
40.000															
60.000															
80.000															
100.000															
120.000															
140.000															
160.000															
180.000															
200.000															

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TABULATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 01+712+312N2+AT10 CRB. FUSELAGE (RB1825)

MACH (1) = .998 BETA (2) = 10.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0060	.0250	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.0590	.3828	-.0047	.0445	.1335	.0000		-.3598		-.4405	-.3287	-.3126	-.2572	-.1792	-.1511
20.000			-.0323	-.0131	.0933	-1.1210		-.4330		-.4049		-.4009	-.3351	-.2812	-.2126
40.000			-.0479	-.0715	-.0927	-.8116		-.4022		-.4409		-.4441			
55.000			-.0786	-.1113	-.1663	-.4646		-.4409		-.3012	-.5090	-.4789	-.0750	-.0278	
70.000			.0194	-.1399	-.2170	-.3320		-.4354		-.9286	-.5459	-.5540	-.1479	-.0376	
90.000	.3069		.0386	-.1493	-.3000	-.3350		-.5711		-.9176	-.5510	-.4905	-.2420	-.0399	
120.000			.1055	-.1093	-.1847	-.1653		-.4410		-1.0667					
140.000		.2458	.1929	.0977	.0698					-.9416	-.7833	-.1621	-.2121	-.1069	
160.000								-.1921							
180.000							.1913								
PHI															
.000	1.0550	.6247	.4436	.3502	.3011	.3234		.4723		-.6311	-.7395	-.1165	-.1742	-.1009	
20.000															
40.000							.6026								
60.000								.4802							
80.000															
100.000															
120.000															
140.000															
160.000															
180.000															
M/LB															
.000	.6530	.7900	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
20.000															
40.000															
60.000															
80.000															
100.000															
120.000															
140.000															
160.000															
180.000															
PHI															
.000	-.0808	-.0384	.0123	.0307	-.3346	-.3365	-.3519								
20.000															
40.000															
60.000															
80.000															
100.000															
120.000															
140.000															
160.000															
180.000															
M/LB															
.000	.0246	.0246	-.3532	-.7337	-.7074	-.5317	-.4088								
20.000															
40.000															
60.000															
80.000															
100.000															
120.000															
140.000															
160.000															
180.000															

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ARC11-716 1A14 04+712+S12M25+AT10 ORG. FUSELAGE (R81826)

MACH (1) = .898 BETA0 (2) = 10.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1970	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI	1.0600	.3769	-.0090	.0319	.1169	.0060		-.3530		-.4567	-.3509	-.7169	-.2429	-.1647	-.1320
20.000		-.0320	-.0271	.0774	-1.1360			-.4412		-.4079					
40.000		-.0577	-.0927	-.0694	-.8337			-.4134		-.3623	-.3403	-.2895	-.2057	-.0587	-.0037
55.000		-.0295	-.1285	-.1771	-.4871			-.4920		-.4095					
70.000		.0082	-.1564	-.2379	-.3443			-.4290		-.5082	-.4829	-.4733	-.0801	.0316	
90.000	-.0094	.0294	-.1631	-.2842	-.3364			-.5974		-.5070	-.5536	-.5404	-.1616	-.0147	
120.000		.0933	-.1467	-.1935	-.1732			-.4354		-.9266	-.5487	-.4733	-.2175	-.0288	
140.000								-1.1150		-.9721	-.7713	-.1905	-.1993	-.1061	
160.000		.2107	.1596	.0649	.0565			-.2106							
191.000								.1855							
196.000								.0046							
192.000										-.8957	-.7947	-.1332	-.1766	-.1118	
165.000								.4571							
169.000															
174.000															
180.000	1.0600	.5764	.3073	.3060	.2574	.2897	.5762	.4549		-.10830	-.6686	-.1243	-.1510	-.0678	
X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0380					

PHI															
.000	-.0793	-.0162	.0320	.0101	-.3374	-.3324	-.3419								
40.000	-.0299	-.0191	.0271	-.4744	-.5761	-.3796	-.3439								
70.000	-.0084	-.0632	-.1690	-.1353	-.3979	-.2873	-.2434								
90.000	-.0380	-.0637	-.1540	-.2003	-.4300	-.3215	-.2387								
105.000			-.0915	-.2993	-.4864	-.3776	-.2719								
110.000															
120.000	.0091	.0247	-.3269	-.7121	-.7076	-.5473	-.4171								
135.000			.3604	-.2910	-.9350	-.9784	-.5332								
150.000	-.0385	.0625	.4187	-.4156	-.5440	-.6851	-.5449								
165.000	-.0362		.3164	-.3610	-.6089	-.3058									
180.000	-.0391	.0687	.2337	.4413											

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ARC11-716 1A14 01+T12+S12N2+S+AT10 CRB. FUSELAGE (R01B28) (29 SEP 73)

REFERENCE DATA

SRP = 2.4210 SQ.FT. YMRP = 29.5800 INCHES
 LREF = 36.7090 INCHES YMRP = .0000 INCHES
 BRP = 36.70-J INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

MACH (1) = 1.246 BETA0 (1) = -10.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1870	.1780	.2090	.2920	.3010	.3790	.4990	.5780
PHI															
.007	1.2900	.8058	.3708	.2942	.4929	.0000									
20.000		.4988	.2895	.3998	.0005										
40.000		.8653	.4182	.3708	.2136										
55.000		.9155	.6111	.4829	.3226										
70.000		.9490	.8955	.4747	.3783										
90.000	1.1530	.9002	.6619	.4668	.4219										
120.000		.7801	.5437	.3347	.4810										
140.000			.5692	.4116	.3476	.4471									
150.000							.6982								
151.000								.9442							
156.000									.7111						
162.000															
163.000															
169.000															
174.000															
180.000	1.2900	.7442	.3955	.3806	.2854	.4024	.9750								
X/LB	.6930	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PARAMETRIC DATA

ALPHA0 = .000 ELEVON = .000
 RUDDER = .000 SPCSRK = .000

PHI															
.000															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

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ARC11-716 IA14 01*Y12*SIZE25*AT10 ORB. FUSELAGE (RB122e)

MACH (1) = 1.248 BETAO (3) = -6.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2720	.3010	.3790	.4990	.5760
PHI															
120.000		.7083	.4830	.3787	.4122	.4619			.1025	-.1907	-.4301	-.2144	-.1653		
140.000								.0674							
150.000		.5725	.4289	.3505	.4463				-.1567	-.4895	-.4018	-.2229	-.1875		
151.000						.6171									
156.000						.8795									
162.000						.6494									
165.000									-.3550	-.4446	-.3408	-.2399	-.2159		
169.000						.9020									
174.000															
180.000	1.3680	.7884	.4673	.3823	.5425	.4232	1.0150								
M/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

M/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2720	.3010	.3790	.4990	.5760
PHI															
.000		.2170	.2963	.3866	.4285	-.4599	-.3782	-.3109							
40.000		.2847	.3828	.6053	.2567	-.3067	-.4041	-.3464	-.2861	-.2678					
70.000		-.0210	-.1081	-.2224	.0284	.0031	-.0338	-.0206	-.2587	-.2390					
90.000		-.0072	-.1059	-.1709	.0816	-.0325	-.0940	-.0390							
105.000			.0927	.0296	-.0920	-.1213	-.0609								
110.000								-.1249							
120.000	-.1268	-.1337	.2139	.3266	-.1578	-.0364	-.0416	-.0971							
135.000			.3917	.2705	-.0913	.0907	.0394								
150.000	-.1144	-.0328	.3032	.2506	.1172	.1703	-.0468								
165.000	-.1016		.3019		.2805	.1728	-.1181								
180.000	-.0841	.1031	.2363	.3322											

MACH (1) = 1.247 BETAO (4) = -3.950

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2720	.3010	.3790	.4990	.5760
PHI															
.000		1.4080	.8488	.3573	.2828	.9137	.0000	-.2579							
20.000			.4441	.2638	.4536	-.1536		-.3227							
40.000			.7400	.3266	.3655	.1054		-.1272							
55.000			.7234	.4349	.3394	.1871		.0963							
70.000			.7413	.4853	.3156	.2421		.0655							
90.000		.8311	.7249	.4904	.2959	.2635		.1660							
120.000			.6773	.4559	.3478	.3695		.4343							
140.000								-.0159							
150.000			.5768	.4390	.3537	.4451		-.2651	-.4962	-.3588	-.2328	-.1691			
151.000								.5778							
156.000								.6536							
182.000															

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TABULATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 ORBITER SIZE+RATIO CRS. FUSELAGE

MACH (1) = 1.246 BETA0 (5) = -2.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.6550	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1811	.2431	.3299	.3715	-.3375	-.3387	-.2767			
40.000	.1920	.2567	.4303	.0902	-.3435	-.4304	-.3330			
70.000	-.0468	-.1469	-.1900	.0920	-.0057	-.0561	-.0479			
90.000	-.0223	-.0804	-.0238	.0693	-.7968	-.0937	-.0647			
105.000		.1430	.0348	-.0960	-.1235	-.1036				
110.000										
120.000	-.0344	-.0260	.2366	.2192	-.1978	-.0722	-.1040			
135.000		.4415	.3532	-.1157	-.0199	-.0684				
150.000	-.0463	.1077	.3930	.3536	.0341	.0238	-.1611			
165.000	-.0460		.3395	.1806	.0355	-.2128				
180.000	-.0466	.1473	.3462	.3932						

MACH (2) = 1.246 BETA0 (6) = .010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.4220	.6582	.3555	.2735	.3824	.0000									
20.000		.4031	.2364	.3905	-.2344										
40.000		.6139	.2905	.2733	.0163										
55.000		.3763	.3372	.2363	.0936										
70.000		.7949	.3329	.2219	.1427										
90.000		.7365	.2635	.3675	.1967	.1845									
120.000		.3928	.3875	.2822	.3269										
140.000		.5929	.4319	.3323	.4161										
150.000															
151.000															
156.000															
162.000															
169.000															
174.000															
180.000	1.4220	.7704	.5198	.4376	.3675	.4497									
M/LB	.6550	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

M/LB	.6550	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1951	.1963	.2305	.1827	-.2440	-.2735	-.2396			
40.000	.1454	.2180	.3272	.0130	-.2371	-.2639	-.2466			
70.000	-.0306	-.1391	-.1390	.0698	-.0210	-.0681	-.0704			
90.000	-.0016	-.0480	.0060	.0434	-.0701	-.1041	-.0641			
105.000		.1086	.0104	-.1171	-.1173	-.1173				
110.000										

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 ARC11-716 1A14 01-112-SIP-25-A110 ORB. FUSELAGE

(R01228)

WACH (S) = 1.246 BETAD (S) = .010

SECTION (11) ORBITER FUSELAGE	DEPENDENT VARIABLE CP									
X/LB	.6330	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0249	.0849	.1704	.1996	-.2196	-.1054	-.1361	-.1761		
135.000			.2996	.4001	-.1241	-.0668	-.1343			
150.000	-.0874	.1620	.3209	.4021	.0125	-.0413	-.1982			
165.000	-.0435	.3431			.1332	-.0247	-.2353			
180.000	-.0448	.1482	.3319	.4294						

ARC11-716 1A14 C0+T12+SIENS-AT10 ORB. PUSBLAGE

REFERENCE DATA

SHIP = 2.4210 50.FT. YMRP = 29.9800 INCHES
 LREF = 36.7090 INCHES YMRP = .0000 INCHES
 SHIP = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA0 = -10.000 ELEVON = .000
 RUDDER = .000 SPOSRK = .000

WACH (1) = 1.245 BETAO (1) = .030

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

Z/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.9780
PHI	.000	1.4120	.7683	.4334	.4570	.5763	.0000	-.0405	.0324	-.0491	-.1395	-.1659	-.1647	-.0126	
20.000			.4814	.4575	.5345	-.2601		-.1637	.0324						
40.000			.6369	.4290	.4310	.0790		-.1057	-.0596	-.1403	-.0831	-.0600	-.1317	-.0366	
55.000			.6237	.4428	.3727	.2031		.0942	-.0920						
70.000			.6715	.4823	.3545	.2923		.0714	-.0141	-.3976	-.2111	-.1162	-.0314		
90.000		.8397	.6993	.4975	.3661	.3134		.1296	-.0621	-.3214	-.3621	-.1115	-.0397		
120.000			.7624	.5796	.4936	.3036		.3655	-.0532	-.2693	-.4927	-.2393	-.0956		
140.000				.7935	.6692	.6122	.6394		-.1523	-.2282	-.3235	-.1664	-.1302	-.0656	
150.000								.9620							
156.000								.8464							
162.000									.6322						
169.000								.9656							
174.000															
180.000	1.4120	1.0270	.7961	.7100	.6364	.6910	1.0760	.9553		-.2545	-.3296	-.0635	-.1167	-.0569	
Z/LB	.6630	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					
PHI	.000	.0664	.1221	.1496	.1651	-.2547	-.3384	-.2906							
40.000		.0806	.1009	.2793	-.0713	-.2937	-.2967	-.3023	-.2630	-.2773					
70.000		.0449	.0377	.1614	.2768	.1047	.1037	.0926	-.2695	-.2482					
90.000		.0447	.0993	.2116	.2443	.0573	.0759	.0717							
105.000			.2440	.1636	.0299	.0394	.0493								
110.000								-.1232							
120.000	-.0041	.1305	.2021	.0990	-.1071	.0447	-.0040	-.0644							
135.000			.6204	.4679	-.0730	-.0317	-.0112								
150.000	-.0039	.1170	.6303	.6303	.1072	.0635	-.1109								
165.000	-.0054		.5645		.2365	.0623	-.1779								
180.000	-.0037	.0741	.5796	.6669											

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TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 CR+T12-S12E5-A111 CRB. PUSBLAGE

(R81230) (02 OCT 75)

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 RUDDER = .000 SPOCK = .000

REFERENCE DATA

REF = 2.4210 SA.FT. WRP = 29.9800 INCHES
 LREF = 38.7090 INCHES WRP = .0000 INCHES
 DREF = 38.7090 INCHES ZWRP = .0000 INCHES
 SCALE = .0000 SCALE

WAO (1) = .972 BETAD (1) = .040

SECTION 11 ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0475	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PH1	.000	1.2410	.6145	1.437	.0236	.0381	.0000	-.1814	-.1432	-.2262	-.2160	-.1004	.0668	.1146	
20.000				1.065	.0282	.0390	.0738	-.2612	-.1304	-.1544	-.2980	-.3722	-.1329	.0482	.1210
40.000				2529	.0617	.0084	-.3265	-.4390	-.1932	-.1932	-.0907	-.4467	-.2209	.1094	
50.000				3414	.1030	.0015	-.0401	-.3383	-.3355	-.4167	-.6697	-.3222	-.1556	.1211	
70.000				3737	.1243	.0015	-.0176	-.1933	-.4167	-.6697	-.3222	-.1556	.1211		
100.000				3423	.1409	.0099	.0090	-.1590	-.6037	-.6650	-.8479	-.1575	.1183		
120.000				4037	.1675	.1150	.1790	.0841	-.6944	-.7724	-.6762	-.6775	-.2435	.1262	
140.000				3066	.2717	.1905	.2689	.2548	-.7724	-.6762	-.6775	-.2435	.1262		
150.000								.5723	-.7721	-.7967	-.5714	-.2660	.1234		
160.000								.0877	-.6619	-.9004	-.5295	-.3220	.1303		
170.000								.6054	-.6619	-.9004	-.5295	-.3220	.1303		
180.000									-.6619	-.9004	-.5295	-.3220	.1303		
190.000									-.6619	-.9004	-.5295	-.3220	.1303		
200.000									-.6619	-.9004	-.5295	-.3220	.1303		

SECTION 12 ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7300	.7810	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480
PH1	.000	1.617	.1134	.0632	-.1462	-.3908	-.3183	-.3154	-.2655	-.2657
20.000				1249	.1342	.2043	-.1470	-.5493	-.3795	-.3138
40.000				-0467	-.1490	-.0366	.0648	-.2328	-.2807	-.2114
70.000				-.0046	-.0746	.0353	.0293	-.2705	-.2971	-.2971
100.000				.0905	-.0460	-.3154	-.3426	-.3307	-.2683	-.2683
110.000				.0435	.0768	.1995	-.0467	-.3533	-.2993	-.3749
120.000						.4917	.1856	-.3650	-.2354	-.3393
130.000				.0773	.1644	.3638	.2844	-.3000	-.2633	-.3756
140.000				.0798	.1748	.3335	-.1741	-.2904	-.3616	-.3616
150.000				.0833	.1649	.3195	-.4968			

ARC11-716 1A14 CR-T12-SIZES-AT11 CRB. FUSLAGE (R21230)

MACH (2) = 1.002 BETAO (1) = .040

SECTION (1) CRIBITER FUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.2340	.6399	1.602	0.548	0.643	0.000	-1.149	-1.203	-2047	-2436	-1.613	.0231	.1065	
20.000				.2129	.0471	.0634	.1282	-.2290	-.1272						
40.000				.3097	.0477	.0421	.0167	-.4620	-.1208	-.2336	-.3343	-.2373	.0412	.1347	
55.000				.3721	.1342	.0370	-.0044	-.2837	-.1781						
70.000				.4054	1.982	.0341	.0200	-.1471	-.3303	.6237	-.4199	-.3363	.0496		
90.000		.9871	.3709	.1745	.0409	.0437		-.1062	-.3662	-.6303	-.4945	-.3347	.0939		
120.000			.4340	.1995	.1447	.2069		.1267	-.3499	-.6273	-.6130	-.3228	.0633		
140.000									-.4373						
150.000			.4188	.3014	.2178	.3002		-.2730	-.7057	-.8360	-.6232	-.3600	.0501		
171.000								.6007							
194.000									.3546						
192.000									-.7062	-.7340	-.5268	-.4001	.0933		
.85.000															
199.000															
174.000															
190.000		1.2340	.6067	.3977	.3167	.2748	.3463	.6288	-.6242	-.8325	-.4943	-.4274	.0974		
W/LB	.6530	.7300	.7810	.8230	.8650	.9230	.9430	1.0050	1.0210	1.0480					

PHI

.000	.1979	1.392	.0879	-.1091	-.4130	-.3309	-.3160	-2.706	-.2711						
40.000			.1637	.2317	-.1213	-.5731	-.4031	-.3244	-.2730	-.2400					
70.000		-.0108	-.0996	-.0096	.1097	-.1783	-.1939	-.1637							
90.000		.0373	-.0217	.0537	.0738	-.2034	-.2066	-.2346							
105.000				.1331	.0156	-.2302	-.2780	-.2714							
110.000								-.2333							
120.000		.0962	.1332	.2044	.0029	-.2360	-.2372	-.3144	-.2695						
135.000				.4377	.2332	-.2099	-.1903	-.2844							
150.000		.1233	.2126	.4033	.3347	-.2262	-.1931	-.3450							
165.000		.1296		.3690		-.1036	-.2135	-.3704							
180.000		.1236	.2123	.3542	.3261										

MACH (3) = 1.023 BETAO (1) = .040

SECTION (1) CRIBITER FUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.2670	.6986	.1931	.0912	.0998	.0000	-1.1039	-.0932	-.1716	-.2215	-.5080	-.0060	.0911	
20.000				.2366	.0914	.1049	.1640	-.1936	-.0960						
40.000				.3206	.1234	.0772	.0479	-.4647	-.0692	-.2199	-.3170	-.2923	.0097	.1340	
55.000				.3931	.1710	.0684	.0231	-.2461	-.1429						
70.000				.4273	.1911	.0686	.0482	-.1133	-.3004	-.3632	-.3932	-.3364	-.0060		
90.000			.9876	.3953	.2582	.0703	.0734	-.0774	-.3243	-.6162	-.4634	-.3337	.0039		

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ARC11-716 1A14 01*12*12*23-AT10 ORD. FUSPLAGE

REFERENCE DATA

SREP = 2.4210 SQ.FT. YMRP = 29.5000 INCHES
 LREF = 38.7090 INCHES YMRP = .0000 INCHES
 SREF = 38.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

WACH = .900 ELEVON = .000
 RUDDER = .000 SPOBRK = .000

ALPHA(1) = -10.140 BETA(1) = -8.370

SECTION (1) ORBITER FUSPLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.1360	.4427	.1223	.0920	.2199	.0000	-.3851	-.2764	-.3074	-.2849	-.1870	-.1194	-.0363	.0080
20.000	.000	.1883	.1480	.1883	-.3663	-.4456	-.3020	-.2343	-.2895	-.1992	-.0921	.0428	.0936		
40.000	.000	.4041	.1931	.1540	-.0771	-.1255	-.0163	-.1941	-.6475	-.0244	.0610	.1463			
55.000	.000	.5793	.3494	.2377	.0906	-.0163	-.0163	-.2217	-.9847	-.0387	.0580	.1329			
70.000	.000	.6743	.4375	.2975	.1686	.0108	.2384	-.1370	-.9021	-.1541	.0357	.0901			
90.000	.000	.9309	.7099	.4910	.3330	.2353	-.0943	-.1610	-.8235	-.0580	-.0100	.0413			
120.000	.000	.7386	.5279	.4402	.4154		.4184								
140.000	.000	.6443	.3185	.4470	.4614		.7147								
150.000	.000						.4709								
156.000	.000						.7444								
162.000	.000						.8542								
165.000	.000						.5230								
169.000	.000														
174.000	.000														
180.000	.000	1.1360	.8035	.5080	.4244	.3845	.3924								
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI	.0391	.1032	.2039	.2266	-.3955	-.3893	-.3671	-.3700	-.3510						
40.000	.0315	.1650	.3975	-.1247	-.3920	-.3716	-.3581	-.3377	-.3093						
70.000	.0971	.0963	.1136	.1922	.0616	.0717	-.0488								
90.000	.1194	.1100	.1617	.1919	.0742	.0364	-.0803								
105.000		.2516	.1246	.0337	-.0123	-.0903									
110.000	.1176	.1905	.4515	.1246	.0263	.0071	-.0761								
120.000		.6004	.2280	.0890	.0632	-.0796									
135.000	.0941	.2039	.3737	.2608	.1699	.0904	-.1977								
150.000	.0711	.3157	.3157	.2659	.0904	-.3356									
160.000	.0477	.1436	.3026	.4390											

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ARC11-716 1A14 01+712+S12N23+7110 CRP. FUSELAGE (R51231)

ALPHAO (1) = -10.130 BETA0 (2) = -6.560

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.1690	.4751	.1447	.1276	.2359	.0000	-.3655	-.2808	-.2532	-.2683	-.1501	-.0858	-.0222	.0164
20.000			.2041	.1553	.1997	-.4939		-.4282			-.2447	-.3574	-.1355	-.0793	.0361
40.000			.3819	.1869	.1492	-.1312		-.3038							.0926
55.000			.5247	.3060	.1947	.0062		-.1673			-.3038				
70.000			.6120	.3799	.2363	.1158		-.0692			-.2416	-.7012	.0220	.0751	.1384
90.000			.6800	.6455	.4299	.2703	.1690	-.0496			-.2804	-.6419	-.0377	.0329	.1298
127.000				.6863	.4799	.3999	.3782	-.1999			-.1897	-.5448	-.1108	.0393	.0972
143.000											-.1225				
150.000				.6345	.5119	.4377	.4487		.3775		-.1646	-.6167	-.0490	.0083	.0614
151.000								.6937							
156.000									.4442						
162.000											-.6537	-.6914	-.0442	-.0157	.0328
169.000								.7412							
174.000							.6623								
180.000	1.1690	.6175	.5300	.4488	.4017	.4114					-.9133	-.7105	-.0488	-.0417	.0174
X/LB	.6930	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

ALPHAO (1) = -10.130 BETA0 (3) = -4.840

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.1910	.4876	.1530	.1355	.2401	.0000	-.3541	-.2677	-.2570	-.2570	-.1454	-.0754	-.0015	.0209
20.000			.2029	.1344	.1953	-.6200		-.3926			-.2493				.0809
40.000			.3546	.1668	.1330	-.1919		-.3114			-.2813	-.3755	-.1252	-.0606	.0436
55.000			.4751	.2547	.1490	-.0547		-.2104			-.3487				.0676
70.000			.5561	.5190	.1823	.0591		-.1208			-.2881	-.7835	-.0313	.0676	.1321
90.000			.7940	.5696	.5679	.2155	.0885	-.1122			-.3318	-.6969	-.0707	.0477	.1190

(R01231)

ARC11-716 1A14 Q1-112-S12N25-AT10 CRB. FUSELAGE

ALPHA(1) = -10.130 BETA(3) = -4.640

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP												
X/LB		.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI														
120.000	.6472	.4354	.3990	.3514	.3382				-.2452	-.9904	-.1474	.0343	.0872	
140.000									-.1444					
150.000	.6220	.5017	.4258	.4285	.3366				-.1952	-.8064	-.0424	.0259	.0713	
151.000					.4651									
156.000														
162.000					.4166				-.7855	-.7047	-.0336	.0070	.0514	
165.000														
169.000					.7388									
174.000						.8574			-.9542	-.7128	-.0378	-.0086	.0403	
180.000	1.1910	.8269	.5491	.4639	.4200									
X/LB	.6530	.7500	.7610	.8250	.8620	.9230	.9630	1.0020	1.0210	1.0480				

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP												
X/LB		.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI														
120.000	.0365	.0848	.1737	.1553	-.3707	-.3666	-.3412		-.3339	-.3179				
140.000	.0045	.1248	.3905	-.1258	-.3666	-.3369	-.3410		-.3257	-.2928				
150.000	.0935	.0548	.0650	.1343	.0092	.0205	-.0786							
151.000	.1194	.0964	.1093	.1127	.0114	-.0127	-.1092							
156.000			.1814	.0321	-.0235	-.0391	-.1225							
162.000							-.2328							
165.000														
169.000	.1306	.1873	.3154	-.0154	-.0541	-.0641	-.1387							
174.000			.2230	-.0039	-.0162	-.1437								
180.000	.1306	.2306	.4349	.3061	.0634	.0101	-.2436							
165.000	.1179	.3645	.5117	.0121	-.3272									
180.000	.1095	.1943	.3464	.5179										

ALPHA(1) = -10.080 BETA(4) = -3.290

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP												
X/LB		.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI														
120.000	1.2040	.4918	.1554	.1409	.2485	.0000	-.3357	-.2719	-.2260	-.1232	-.0656	.0015	.0307	
140.000			.1967	.1324	.1944	-.7114	-.3712	-.2343						
150.000			.3173	.1169	-.2503	-.3073	-.2610	-.3877	-.1199	-.0454	.0363	.0796		
151.000			.4240	.2151	.1107	-.1071	-.2431	-.3794	-.6334	-.0462	.0668	.1250		
156.000			.4990	.2823	.1297	.0161	-.1651	-.3272	-.7391	-.0921	.0478	.1135		
170.000		.7294	.5326	.3122	.1574	.0473	-.1642	-.3794	-.6389	-.1745	.0233	.0773		
180.000		.6056	.3864	.3125	.2633	.0875	-.1535	-.2877	-.6099	-.0414	.0293	.0740		
140.000		.6136	.4690	.4057	.4129			-.3364	-.6099	-.0414	.0293	.0740		
150.000														
151.000						.6311								
156.000														
162.000														

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ARC11-716 1A14 CR+T12+S12N2+S+NT10 CRB. FUSELAGE (RB1831)

ALPHAX (1) = -10.080 BETA (4) = -3.250

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
125.000								.7277							
169.000						.6684									
174.000															
190.000	1.2040	.6572	.5717	.4705	.4242	.4333		.6560							
X/LB	.6930	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.0000	.0332	.0733	.1594	.1533	-.3577	-.3576	-.3221								
40.000	.0010	.0940	.2941	-.1605	-.3599	-.3122	-.3141								
70.000	.0963	.0379	.0426	.1094	-.0202	.0036	-.0902								
90.000	.1197	.0870	.0836	.0900	-.0106	-.0329	-.1237								
105.000			.1488	-.0133	-.0515	-.0797	-.1364								
110.000															
120.000	.1307	.1741	.2603	-.0941	-.0970	-.0976	-.1603	-.2219							
135.000			.6673	.1977	-.0506	-.0648	-.1834								
150.000	.1362	.2355	.4532	.3222	.0135	-.0327	-.2743								
165.000	.1357		.3799		.0963	-.0275	-.3252								
180.000	.1255	.2135	.3615	.5392											

ALPHAX (1) = -10.040 BETA (5) = -1.600

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
20.000	1.2160	.6993	.1985	.1485	.2515	.0000									
40.000			.1900	.1463	.1962	-.7692									
60.000			.2905	.1366	.1034	-.3083									
80.000			.3787	.1761	.0734	-.1572									
90.000			.4443	.2138	.0621	-.0297									
120.000		.6861	.4795	.2574	.1071	-.0024									
140.000			.9004	.3465	.2659	.2431									
150.000			.9910	.4619	.5976	.4032									
165.000															
180.000	1.2160	.8376	.5778	.4661	.4283	.4434									
X/LB	.6930	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

ARC11-716 1A14 01+712+S12N25+AT10 ORD. FUSELAGE (M01931)

ALPHA(1) = -10.040 BETA(1, 5) = -1.600

SECTION (1) WRITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6550	.7500	.7610	.8250	.8620	.9250	.9650	1.0020	1.0210	1.0480
PHI										
.000	.0298	.0564	.1386	.1191	-.3207	-.3462	-.3071		-.3200	-.3172
40.000	-.0101	.0656	.2467	-.1673	-.3006	-.2938	-.3237		-.3125	-.2821
70.000	.0993	.0326	.0360	.0992	-.0253	-.0235	-.1165			
90.000	.1132	.0797	.0718	.0643	-.0448	-.0376	-.1471			
105.000			.1301	-.0369	-.0677	-.1115	-.1692			
110.000										-.2543
120.000	.1241	.1584	.2035	-.1623	-.1441	-.1433	-.2019			-.2460
135.000			.6948	.1853	-.1145	-.1275	-.2423			
150.000	.1370	.2336	.4932	.3615	-.0453	-.0601	-.3172			
165.000	.1370		.4106		.0336	-.0746	-.3438			
180.000	.1368	.2229	.3694	.5791						

ALPHA(1) = -10.040 BETA(1, 6) = .100

SECTION (1) WRITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1677	.1760	.2030	.2320	.3010	.3790	.4990	.7760
PHI															
.000	1.2130	.4976	.1569	.1506	.2441	.0000		-.3724		-.2699	-.2387	-.1243	-.0294	.0214	.0338
20.000			.1760	.1434	.1905	-.8129		-.3509		-.2926					
40.000			.2969	.1234	.0671	.3997		-.2712		-.2992	-.3689	-.0967	-.0340	.0313	.0632
55.000			.3279	.1396	.0360	.2017		-.6556		-.4489					
70.000			.3680	.1625	.0333	-.0771		-.2774		-.4260	-.6904	-.1041	.0667	.1088	
90.000		.9604	.4192	.2036	.0326	-.0324		-.2799		-.5286	-.8016	-.2228	.0328	.0934	
120.000			.3076	.2966	.2118	.1926		-.0311		-.5157	-.7510	-.2817	-.0115	.0402	
140.000			.5682	.4642	.3724	.3698				-.7755	-.8028	-.0674	.0169	.0633	
151.000															
156.000										.5498					
162.000															
165.000															
169.000															
174.000															
182.000	1.2130	.6327	.5895	.4936	.4321	.4461									

X/LB	.6550	.7500	.7610	.8250	.8620	.9250	.9650	1.0020	1.0210	1.0480
PHI										
.000	.0286	.0364	.0567	-.0413	-.3099	-.3269	-.3101		-.3170	-.3249
40.000	-.0182	.0297	.1373	-.1655	-.2658	-.2866	-.3068		-.2935	-.2814
70.000	.0972	.0287	.0112	.0706	-.0356	-.0442	-.1322			
90.000	.1113	.0681	.0436	.0262	-.0747	-.0769	-.1612			
105.000			.1005	-.0753	-.1132	-.1364	-.1662			
110.000										-.2642

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ARC11-716 1A14 01-112-S12MS+AT10 CRS. FUSELAGE (R21B31)

ALPHAO(1) = -10.040 BETAO(6) = .100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6550	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI	.1156	.1400	.1204	-.2494	-.1761	-.1652	-.2337	-.2652		
120.000			.6827	.1361	-.1776	-.1925	-.2965			
135.000			.1343	.2290	.5045	.3751	-.1149	-.1317	-.3507	
150.000			.1358	.4194		-.0324	-.1227	-.3525		
165.000			.1346	.8273	.5940	.9903				

ALPHAO(1) = -10.040 BETAO(7) = 1.810

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI	1.2100	.4908	.1483	.1484	.2345	.0000		-.3167		-.2519	-.2384	-.1251	-.0906	.0019	.0176
20.000			.1633	.1452	.1775	-.8538		-.3669		-.2809					
40.000			.2192	.1031	.0667	-.4107		-.3564		-.2945	-.3765	-.1134	-.0496	.0290	.0417
55.000			.2755	.0977	.0021	-.2447		-.4232		-.4640					
70.000			.3296	.1056	-.0115	-.1210		-.3152		-.4515	-.8716	-.1942	.0666	.0995	
90.000		.4980	.3634	.1435	-.0301	-.1082		-.3142		-.6220	-.5373	-.3972	.0452	.0779	
120.000			.4568	.2444	.1496	.1401		-.0919		-.5766	-.8058	-.3369	-.0476	.0260	
140.000			.5340	.4399	.3380	.3565			.1484	-.6202	-.8070	-.0763	-.0033	.0493	
150.000							.4996								
151.000									.2751						
156.000										-.8162	-.6914	-.0489	.0091	.0546	
162.000															
165.000															
169.000							.6257								
174.000															
180.000	1.2100	.8190	.9886	.6947	.4300	.4419		.6925		-.9305	-.6957	-.0263	.0232	.0734	
180.000	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.000	.0144	.0304	.0470	-.0545	-.3129	-.3150	-.3235
40.000		-.0156	-.0096	.0311	-.2083	-.3342	-.3323	-.3320
70.000		.0693	.0165	-.0196	.0406	-.0961	-.0778	-.1561
90.000		.0945	.0312	.0106	-.0160	-.1168	-.1113	-.1816
105.000			.0542	-.1147	-.1479	-.1686	-.2096	
110.000							-.2947	
120.000	.0794	.1199	.0885	-.3179	-.1861	-.2284	-.2717	-.2889
135.000			.8544	.0642	-.2567	-.2682	-.3623	
150.000	.1183	.2119	.5082	-.2199	-.1823	-.3948		
165.000	.1195	.1195	.4143	-.1041	-.1743	-.3715		
180.000	.1308	.2211	.5674	.9924				

ARC11-716 1A14 Q1+112+SIZE25+AT10 CRB. FUSELAGE (RB1231)

ALPHA(1) = -10.130 BETA(1) = 3.580

SECTION : 1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.1960	.4734	.1310	.1400	.2187	.0000		-.3245	-.2698	-.2969	-.1612	-.0850	-.0186	-.0107	
20.000			.1375	.1188	.1602	-.8723		-.3620	-.2985						
40.000			.1740	.0795	.0443	-.4317		-.4283	-.3009	-.3570	-.1645	-.0601	.0107	.0265	
55.000			.2207	.0537	-.0298	-.2797		-.4483	-.4905						
70.000			.2699	.0586	-.0579	-.1604		-.3408	-.5686	-.5029	-.3249	.0541	.0941		
90.000		.4080	.2968	.0859	-.0556	-.1999		-.3535	-.6799	-.5104	-.4981	-.0184	.0584		
120.000			.3974	.1653	.0929	.0823		-.1993	-.6537	-.7793	-.4196	-.0893	.0162		
140.000									-.8419						
150.000			.4990	.3999	.3133	.5009		.0913	-.8593	-.8032	-.5908	-.0371	.0266		
151.000								.4432							
156.000									.2301						
162.000										-.8239	-.7129	-.0576	-.0191	.0397	
165.000								.6468							
169.000										-.9499	-.6638	-.0422	.0065	.0625	
174.000															
180.000	1.1960	.8063	.5826	.4903	.4270	.4346		.6793							
X/LB	.8530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.1960	.4734	.1310	.1400	.2187	.0000		-.3245	-.2698	-.2969	-.1612	-.0850	-.0186	-.0107	
20.000			.1375	.1188	.1602	-.8723		-.3620	-.2985						
40.000			.1740	.0795	.0443	-.4317		-.4283	-.3009	-.3570	-.1645	-.0601	.0107	.0265	
55.000			.2207	.0537	-.0298	-.2797		-.4483	-.4905						
70.000			.2699	.0586	-.0579	-.1604		-.3408	-.5686	-.5029	-.3249	.0541	.0941		
90.000		.4080	.2968	.0859	-.0556	-.1999		-.3535	-.6799	-.5104	-.4981	-.0184	.0584		
120.000			.3974	.1653	.0929	.0823		-.1993	-.6537	-.7793	-.4196	-.0893	.0162		
140.000									-.8419						
150.000			.4990	.3999	.3133	.5009		.0913	-.8593	-.8032	-.5908	-.0371	.0266		
151.000								.4432							
156.000									.2301						
162.000										-.8239	-.7129	-.0576	-.0191	.0397	
165.000								.6468							
169.000										-.9499	-.6638	-.0422	.0065	.0625	
174.000															
180.000	1.1960	.8063	.5826	.4903	.4270	.4346		.6793							
X/LB	.8530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

ALPHA(1) = -10.130 BETA(1) = 5.250

SECTION : 1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.1960	.4734	.1310	.1400	.2187	.0000		-.3245	-.2698	-.2969	-.1612	-.0850	-.0186	-.0107	
20.000			.1375	.1188	.1602	-.8723		-.3620	-.2985						
40.000			.1740	.0795	.0443	-.4317		-.4283	-.3009	-.3570	-.1645	-.0601	.0107	.0265	
55.000			.2207	.0537	-.0298	-.2797		-.4483	-.4905						
70.000			.2699	.0586	-.0579	-.1604		-.3408	-.5686	-.5029	-.3249	.0541	.0941		
90.000		.4080	.2968	.0859	-.0556	-.1999		-.3535	-.6799	-.5104	-.4981	-.0184	.0584		
120.000			.3974	.1653	.0929	.0823		-.1993	-.6537	-.7793	-.4196	-.0893	.0162		
140.000									-.8419						
150.000			.4990	.3999	.3133	.5009		.0913	-.8593	-.8032	-.5908	-.0371	.0266		
151.000								.4432							
156.000									.2301						
162.000										-.8239	-.7129	-.0576	-.0191	.0397	
165.000								.6468							
169.000										-.9499	-.6638	-.0422	.0065	.0625	
174.000															
180.000	1.1960	.8063	.5826	.4903	.4270	.4346		.6793							
X/LB	.8530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

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(RB1231)

ARC11-716 1A14 01-T12-SIZES+AT10 CRG. FUSELAGE

ALPHA(1) = -10.120 BETA(10) = 7.010

SECTION (1) CRIBTER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
165.000								.5750							
169.000															
174.000								.6105							
180.000	1.1410	.7432	.5454	.4468	.3913	.4067	.7208								
W/LB	.6530	.7300	.7810	.8250	.8620	.9130	.9650	1.0020	1.0210	1.0480					
PHI															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

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ALPHA(1) = -10.130 BETA(11) = 9.780

SECTION (1) CRIBTER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
156.000															
162.000															
169.000															
174.000															
180.000	1.0970	.5745	.0378	.0818	.1723	.0000									
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
156.000															
162.000															
169.000															
174.000															
180.000	1.0970	.7062	.5163	.4261	.3714	.3870									
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
156.000															
162.000															
169.000															
174.000															
180.000	.6530	.7900	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					



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(RE1231)

ALPHA(2) = -0.110 BETA(1) = -0.350

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.0680	.1468	.4316	.1322	.0145	.0020	-.0002	-.1690		
135.000		.5748	.2104	.0803	.0490	-.0897				
150.000	.0544	.1745	.3541	.2365	.1469	.0746	-.2063			
165.000	.0376		.3026	.2379	.0871	-.3308				
180.000	.0809	.1231	.2973	.4632						

ALPHA(2) = -0.120 BETA(2) = -6.640

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.4990	5790
PHI														
.000	1.1770	.4996	.1479	.1190	.2263	.0000		-.3696		-.2640	-.2321	-.1927	-.0855	-.0096
20.000		.2118	.1903	.1906	-.5070			-.4340		-.2657	-.2334	-.1906	-.0790	.0468
40.000		.3941	.1514	-.1336				-.3123		-.2810	-.3904	-.1366	-.0790	.0468
55.000		.5372	.3078	.1978	.0070			-.1961		-.2359	-.7178	-.0422	.0963	.1137
70.000		.8160	.3747	.2283	.1053			-.0635		-.2740	-.6384	-.0533	.0594	.1060
90.000	.6593	.5374	.4176	.2608	.1791			-.0442		-.1939	-.5968	-.1319	.0279	.0690
120.000		.6603	.4501	.3712	.3529			-.1962		-.1458				
140.000		.9234	.4663	.3943	.4140				.3572	-.1659	.8197	-.0645	-.3069	.0354
150.000									.6607					
174.000									.4212					
180.000	1.1770	.7745	.4627	.4010	.3929	.3746				-.8019	-.7510	-.0644	-.0285	.0093
189.000						.8476		.7230						
174.000								.5536						
180.000	.6830	.7500	.7810	.8230	.8600	.9230	.9630	1.0020	1.0210	1.0480				

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.4990	5790
PHI														
.000	.0699	.1127	.2113	.2262	-.3432	-.3666	-.3443			-.3279	-.3204			
.000	.0792	.1630	.4032	-.0877	-.3275	-.3426	-.3401			-.3111	-.2926			
70.000	.0423	.0031	.0700	.1632	.0423	.0423	-.0628							
90.000	.0721	.0567	.1237	.1525	.0269	.0069	-.0946							
105.000		.2117	.0825	-.0083	-.0465	-.1179								
110.000								-.2354						
120.000	.0836	.1519	.3996	.0627	-.0292	-.0340	-.1036							
135.000		.6082	.2122	.0246	.0141	-.1164								
150.000	.0789	.1667	.3909	.2577	.0799	.0323	-.2301							
165.000	.0654	.3299	.1831	.0264	-.3204									
180.000	.0923	.1487	.3181	.4676										

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ARC11-716 1A14 01-T12-S12B-S1110 CRE. FUSELAGE (RE1231)

ALPHAXI 21 = -0.120 BETA0 (3) = -4.940

SECTION (1) CREWETTER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1990	.9123	.1547	.1237	.2364	.0000		-.3987		-.2710	-.1560	-.1431	-.0768	.0023	.0382
20.000			.2113	.1910	.1956	-.6291		-.3919		-.2377					
40.000			.3647	.1716	.1404	-.1932		-.3087		-.2313	-.3679	-.1286	-.0665	.0488	.0987
55.000			.4828	.2637	.1540	-.0559		-.2010		-.3308					
70.000			.5597	.3204	.1770	.0976		-.1148		-.2794	.7424	-.0481	.0510	.1103	
90.000		.7690	.9603	.3937	.2037	.1106		-.0993		-.3268	-.7005	-.0665	.0381	.1009	
120.000			.6223	.4080	.3345	.3200		-.1399		-.2453	-.6154	-.1450	.0279	.0696	
140.000			.9608	.4632	.3877	.3956				-.1623					
190.000									.3230	-.2316	-.8655	-.0677	.0138	.0485	
191.000								.6571							
196.000									.3984						
182.000										-.6316	-.7826	-.0640	-.0716	.0289	
165.000															
169.000															
174.000							.8453								
180.000	1.1990	.7690	.3046	.4186	.3716	.3480				-.9570	-.7693	-.0432	-.0220	.0283	
W/LB	.6530	.7300	.7810	.6230	.6820	.9230	.9690	1.0020	1.0210	1.0480					

ALPHAXI 21 = -0.130 BETA0 (4) = -3.270

SECTION (1) CREWETTER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2140	.9166	.1982	.1342	.2437	.0000		-.3363		-.2735	-.2390	-.1300	-.0099	.0073	.0467
20.000			.2008	.1344	.1938	-.7232		-.3777		-.2293					
40.000			.3304	.1548	.1204	-.2331		-.3101		-.2634	-.3453	-.1176	-.0496	.0412	.0928
55.000			.4334	.2163	.1113	-.1101		-.3743		-.3743					
70.000			.4978	.2825	.1298	.0006		-.1640		-.3846	-.8021	-.0889	.0334	.1024	
90.000		.7808	.9226	.3730	.1908	.0355		-.1565		-.3728	-.7432	-.1256	.0412	.0940	
W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.5760

MFC11-716 1A1A CRITICAL-SIZES-RATIO OF PUSLAGE (M21031)

ALPHA01 E1 = -0.130 BETA0 (4) = -3.270

SECTION (1) CRITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5780
PHI															
120.000			.5820	.3670	.2504	.2713		.2312		-.2977	-.6452	-.2485	.0274	.0645	
140.000										-.1987					
170.000			.5724	.4510	.3468	.3643				-.4464	-.8036	-.1148	.0274	.0349	
191.000								.6233		.2839					
196.000									.3715						
182.000										-.6390	-.7534	-.0996	.0138	.0425	
169.000								.7146							
174.000							.6532								
180.000	1.2140	.9010	.5216	.4515	.3691	.3997		.6392		-.9641	-.7540	-.0340	.0029	.0439	
W/LB	.6930	.7300	.7810	.8231	.8680	.9250	.9630	1.0080	1.0210	1.0480					

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5780
PHI															
.000	.0980	.0875	.1712	.1724	.3278	.3422	-.3187		-.3119	-.3029					
40.000	.0355	.1297	.3139	-.1403	.3196	-.3217	-.3109		-.3049	-.2870					
70.000	.0310	-.0078	.0197	.1038	-.0168	-.0072	-.0940								
90.000	.0780	.0454	.0889	.0747	-.0390	-.3443	-.1302								
105.000			.1433	-.0139	-.0751	-.0930	-.1491								
110.000								-.2306							
120.000	.0848	.1443	.2649	-.0536	-.1164	-.1054	-.1687	-.2139							
135.000			.6428	.1928	-.0712	-.0737	-.1680								
150.000	.1037	.8028	.4346	.3015	-.0142	-.0355	-.2830								
165.000	.1037		.3682	.0400	-.0593	-.3212									
180.000	.0948	.1891	.3505	.5804											

ALPHA01 E1 = -0.130 BETA0 (5) = -1.000

SECTION (1) CRITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5780
PHI															
.000	1.2220	.7504	.1365	.1378	.2390	.0000		-.3273		-.2807	-.2514	-.1329	-.0409	.0035	.0285
20.000			.1927	.1396	.1916	-.7897		-.3482		-.2787					
40.000			.2971	.1337	.1016	-.3128		-.3043		-.2660	-.3493	-.1150	-.0457	.0354	.0788
55.000			.3812	.1718	.0708	-.1824		-.2771		-.4169					
70.000			.4398	.2056	.0716	-.0451		-.2186		-.3875	-.8309	-.1058	.0531	.0973	
90.000	.6474		.6663	.2442	.0965	-.0086		-.2181		-.4647	-.7785	-.1861	.0432	.0847	
120.000			.5338	.3183	.2415	.2282		.0356		-.4249	-.8882	-.2803	.0226	.0308	
140.000									-.6094						
150.000			.5484	.4370	.3472	.3388			-.7457	-.6329	-.1265	.0292	.0547		
151.070								.9821							
196.000															
182.000															

ORIGINAL PAGE IS OF POOR QUALITY



DATE ON DEC 74 TABULATED MEASURE DATA - 1A14A - VOL. 3

ARC11-116 1A14 OR-112-SIENS-RATIO ORB. PUBLAGE (RC1031)

ALPHA(X) B1 = -0.130 BETA0 (B) = -1.000

SECTION (11) ORBITER PUBLAGE DEPENDENT VARIABLE CP

W/L	.0000	.0040	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
105.000								.7033							
109.000						.6441									
174.000															
190.000	1.2220	.7932	.5339	.4370	.3832	.4034		.6427							
E/L	.6530	.7900	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0490					

PHI

.000	.0399	.0702	.1420	.1124	-.3167	-.3328	-.3010								
40.000	.0134	.0930	.2990	-.1999	-.2929	-.2973	-.3096								
70.000	.0335	-.0138	-.0030	.0722	-.0497	-.0341	-.1132								
90.000	.0751	.0361	.0415	.0347	-.0656	-.0693	-.1462								
105.000			.1091	-.0579	-.1113	-.1217	-.1674								
110.000															
120.000	.0929	.1316	.1908	-.1803	-.1807	-.1499	-.1973								
135.000			.6502	.1622	-.1538	-.1325	-.2395								
150.000	.1083	.2098	.4793	.3247	-.0836	-.1040	-.3166								
165.000	.1085	.1085	.3902		-.0746	-.1025	-.3375								
180.000	.1076	.1927	.3610	.3316											

ALPHA(X) B1 = -0.130 BETA0 (B) = .010

SECTION (11) ORBITER PUBLAGE DEPENDENT VARIABLE CP

W/L	.0000	.0790	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2190	.9207	.1762	.1409	.2330	.0000									
20.000			.1790	.1406	.1831	-.6148									
40.000			.2986	.1163	.0810	-.3672									
55.000			.3290	.1301	.0788	-.2091									
70.000			.3804	.1355	.0216	-.0940									
90.000			.4981	.4080	.1903	.0399	-.0577								
105.000			.4838	.2739	.1909	.1629									
120.000			.5092	.4223	.3334	.3379									
130.000															
131.000															
134.000															
142.000															
150.000															
160.000															
174.000	1.2190	.7925	.5401	.4445	.3906	.4114									
180.000															
E/L	.6530	.7900	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0490					

ARC11-716 1A14 01+T12-S12M25+AT10 ORB. FUSELAGE

(R81B31)

ALPHA(2) = -8.130 BETA(6) = .010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.8230	.8617	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0431	.0482	.0651	-.0402	-.2075	-.3103	-.2318		-.2864	-.3009
40.000	.0067	.0489	.1438	-.1439	-.2739	-.2699	-.2641		-.2765	-.2592
70.000	.0332	-.0170	-.0232	.0403	-.0806	-.0532	-.1262			
90.000	.0729	.0356	.0160	-.0017	-.1043	-.0686	-.1367			
105.000			.0797	-.1014	-.1394	-.1492	-.1867			
110.000								-.2560		
120.000	.0912	.1199	.1241	-.2375	-.1798	-.1869	-.2344	-.2475		
135.000			.690E	.1243	-.1835	-.1949	-.2924			
150.000	.1080	.2018	.4741	.3423	-.1494	-.1482	-.3394			
165.000	.1080		.3699		-.0734	-.1467	-.3390			
190.000	.1035	.2016	.3690	.5634						

ALPHA(2) = -8.120 BETA(7) = 1.700

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2140	.5100	.1436	.1361	.2204	.0000		-.3209	-.2438	-.2340	-.1307	-.0544	.0024	.0295	
20.000			.1604	.1371	.1711	-.6598		-.3719	-.2755	-.3784	-.1130	-.0509	.0290	.0324	
40.000			.2208	.0922	-.4170			-.3360	-.2847	-.3784	-.1130	-.0509	.0290	.0324	
55.000			.2753	.0900	-.0065	-.2907		-.4120	-.4542	-.4400	-.6971	-.1978	.0554	.0903	
70.000			.3213	.1030	-.0228	-.1325		-.3091	-.4400	-.6971	-.1978	.0554	.0903	.0740	
90.000			.4875	.3513	.1341	-.0120	-.1069	-.3056	-.6021	-.6343	-.3855	.0549	.0740	.0264	
120.000			.4364	.2209	.1262	.1293		-.0840	-.3757	-.8245	-.3343	-.0247	.0264		
140.000									-.7169	-.6437	-.8656	-.0012	-.0013	.0398	
150.000			.4981	.3995	.3004	.3104		.1399							
156.000								.4903							
162.000									.2539						
165.000										-.6437	-.7551	-.0524	.0121	.0393	
169.000															
174.000															
180.000	1.2140	.7773	.5392	.4478	.3917	.4065	.8119	.6732	-.9725	-.7211	-.0279	.0185	.0549		

X/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0353	.0437	.0561	-.0576	-.3275	-.3267	-.2957		-.2651	-.2536
40.000	.0064	.0093	.0402	-.2044	-.3745	-.3426	-.2927		-.2566	-.2543
70.000	.0312	-.0176	-.0504	.0122	-.1195	-.0885	-.1482			
90.000	.0680	.0237	-.0108	-.0391	-.1458	-.1229	-.1867			
105.000			.0491	-.1415	-.1700	-.1754	-.2173			
110.000								-.3117		

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 1A14 01+Y12+S12M25+AT10 ORB. FUSELAGE (RB1931)

ALPHAO (2) = -6.120 BETAO (7) = 1.700

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9530	1.0020	1.0210	1.0480
PHI										
120.000	.0751	.1035	.0399	-.3134	-.1803	-.2288	-.2676	-.2898		
135.000			.6283	.0608	-.2895	-.2698	-.3511			
150.000	.0934	.1901	.4763	.3995	-.2673	-.2076	-.3904			
165.000	.0986		.2989		-.1488	-.2066	-.3428			
180.000	.1070	.1990	.3616	.5697						

ALPHAO (2) = -6.110 BETAO (8) = 3.340

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0060	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.2050	.2320	.3010	.3790	.4990	.5760
PHI														
20.000	1.2010	.4971	.1377	.1312	.2104	.0000	-.3245	-.2485	-.2382	-.1567	-.0805	-.0149	.0023	
40.000			.1414	.1071	.1543	-.6754	-.3571	-.2812						
55.000			.1778	.0705	.0421	-.4589	-.3648	-.2895	-.3587	-.1437	-.0576	.0142	.0353	
70.000			.2205	.0465	.0357	-.2930	-.4359	-.4657						
90.000		.4046	.2644	.0320	-.0675	-.1899	-.3399	-.5155	-.5665	-.3046	.0524	.0787		
120.000			.2919	.0789	-.0617	-.1599	-.3417	-.6619	-.5091	-.4831	.0375	.0998		
140.000			.3792	.1670	.0725	.0792	-.1434	-.6457	-.8551	-.3981	-.0571	.0169		
150.000			.4620	.3999	.2688	.2749		-.8463						
162.000							.4361	-.8787	-.8716	-.0935	-.0270	.0211		
169.000								.2084						
174.000									-.8496	-.7947	-.0369	-.0106	.0238	
180.000	1.2010	.7825	.5310	.4414	.3773	.3985	.7693		-.9658	-.7431	-.0368	.0018	.0442	

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9530	1.0020	1.0210	1.0480
PHI										
40.000	.0271	.0546	.0729	-.0392	-.2974	-.3033	-.3135			
70.000	-.0105	-.0047	.0355	-.3445	-.4788	-.3743	-.2955			
90.000	.0474	-.0330	-.0709	-.0143	-.1661	-.0967	-.1533			
105.000	.0566	.0094	-.0405	-.0694	-.2027	-.1387	-.1839			
110.000			.0216	-.1686	-.2249	-.2031	-.2136			
120.000	.0672	.0618	-.0355	-.3936	-.2688	-.2602	-.2672	-.2590		
135.000			.6005	.0198	-.5726	-.3283	-.4093			
150.000	.0690	.1759	.4800	.3666	-.3493	-.2477	-.3923			
165.000	.0919		.3853		-.1952	-.3038	-.2757			
180.000	.0942	.1860	.3550	.5565						

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 1A14 01*112*512N23*AT10 ORB. FUSELAGE (R51831)

ALPHA(2) = -8.080 BETA(9) = 4.950

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	1.1780	.4649	.1034	.1176	.1937	.0000		-.3295		-.2896	-.2902	-.1921	-.1064	-.0447	-.0278
20.000		.1064	.0837	.1354	-.9179			-.3559		-.3088		-.1790	-.0923	-.0132	.0190
40.000		.1272	.0406	.0147	-.9217			-.3569		-.3081		-.1790	-.0923	-.0132	.0190
55.000		.1638	.0066	-.0562	-.3333			-.4272		-.4748		-.3999	-.0077	.0684	
70.000		.2063	.0021	-.1094	-.2086			-.3384		-.5439	-.4784	-.3999	-.0077	.0684	
90.000		.3077	.2305	.0191	-.1143	-.2034		-.3447		-.7003	-.5231	-.5213	-.0377	.0390	
120.000			.3190	.1088	.0109	.0214		-.2189		-.7196	-.6790	-.4250	-.1287	.0066	
140.000			.4211	.3320	.2270	.2331			.0137	-.9038	-.8665	-.0901	-.0653	-.0043	
151.000								.3726							
156.000								.1602		-.8548	-.8099	-.0653	-.0440	.0039	
162.000								.5968							
165.000								.7330							
169.000								.6309							
174.000															
180.000															
X/LB	.8930	.7300	.7407	.9232	.4261	.3679	.3898	.7330							
PHI	.0041	.0411	.0737	-.0061	-.3246	-.3246	-.3288			-.3151	-.2834				
40.000		-.0255	-.0065	.0505	-.4138	-.5446	-.4399	-.3171		-.3113	-.2999				
70.000		.0420	-.0390	-.0913	-.0458	-.2349	-.1573	-.1774							
90.000		.0538	-.0115	-.0708	-.1061	-.2379	-.1847	-.2026							
105.000			-.0066	-.1910	-.2964	-.2355	-.2238								
110.000								-.2325							
120.000		.0484	.0638	-.1212	-.4848	-.4295	-.3096	-.2985							
135.000				.5663	-.0421	-.6649	-.4069	-.4233							
150.000		.0803	.1557	.4799	.3844	-.4067	-.4325	-.3555							
165.000		.0622		.3789		-.2377	-.4446	-.2627							
180.000		.0782	.1703	.3377	.5342										

ALPHA(2) = -8.080 BETA(10) = 6.750

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	1.1480	.4463	.0615	.0980	.1623	.0000		-.3263		-.3333	-.3132	-.2217	-.1543	-.0638	-.0649
20.000		.0714	.0365	.1162	-.9627			-.3582		-.3273		-.2135	-.1358	-.0293	.0138
40.000		.0788	.0066	.0010	-.6267			-.3466		-.3466	-.3144	-.2135	-.1358	-.0293	.0138
55.000		.1059	-.0318	-.1061	-.3731			-.4825		-.4825	-.4450	-.4375	-.0368	.0807	
70.000		.1449	-.0465	-.1493	-.2485			-.3527		-.5633	-.4450	-.4375	-.0368	.0807	
90.000		.2138	.1689	-.0323	-.1635	-.2418		-.4523		-.7093	-.5095	-.5299	-.1128	.0220	

ORIGINAL PAGE IS OF POOR QUALITY



(RE1831)

ARC11-716 1A14 01+712+S12R3+AT10 CRP. FUSELAGE

ALPHAO(2) = -8.090 BETAO(11) = 8.570

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

K/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
165.000															
169.000															
174.000															
180.000	1.1040	.6634	.4742	.3835	.3267	.3003	.6564	.5348		-1.0380	-.6427	-.0660	-.0952	-.0300	
K/LB	.6530	.7500	.7610	.6230	.6820	.9230	.9630	1.0020	1.0210	1.0440					
PHI															
.000	-.0506	-.0106	.0282	.0090	-.3378	-.3309	-.3408								
40.000	-.0375	-.0296	.0344	-.4722	-.5666	-.5934	-.3400								
70.000	.0309	-.0492	-.1296	-.1038	-.3249	-.2429	-.2272								
90.000	-.0070	-.0905	-.1123	-.1547	-.3533	-.2691	-.2310								
105.000															
110.000															
120.000	.0342	.0406	-.2837	-.6643	-.6210	-.4716	-.4471								
135.000															
150.000	.0073	.1026	.4611	.4161	-.4814	-.6013	-.5300								
165.000	.0080														
180.000	.0216	.1221	.3023	.5018											

ALPHAO(3) = -6.100 BETAO(1) = -8.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

K/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
80.000	1.1260	.4963	.1378	.0961	.2144	.0700									
40.000															
55.000															
70.000															
90.000	.9010	.6741	.4599	.3040	.2214										
120.000															
140.000															
150.000															
156.000															
162.000															
169.000															
174.000															
180.000	1.1260	.7271	.4172	.3377	.3047	.3213	.8233	.7103							
K/LB	.6530	.7300	.7610	.6230	.6820	.9230	.9630	1.0020	1.0210	1.0440					

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 1A14 01+112+SIEN2+AT10 CCE. FUSELAGE (R21231)

ALPHA(3) = -6.110 BETA(2) = -6.480

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L2	.6530	.7500	.7810	.8230	.8820	.9250	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.0348	.1128	.3837	.0609	-.0438	-.0345	-.1044	-.1912		
135.000		.5677	.1809	.0035	.0018	-.1254				
150.000	.0442	.1990	.3527	.2226	.0669	.0155	-.2375			
165.000	.0377		.3017		.1511	.0098	-.3171			
180.000	.0360	.1296	.2977	.4524						

ALPHA(3) = -6.130 BETA(3) = -4.820

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L2	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2000	.5348	.1382	.1192	.2308	.0000		-.3504	-.2854	-.2551	-.1410	-.0706	.0124	.0972	
20.000		.2182	.1496	.1908	.6336			-.3716	-.2534						
40.000		.3731	.1718	.1338	.1932			-.3063	-.2161	-.3649	-.1286	-.0623	.0923	.1188	
55.000		.4881	.2641	.1505	.0404			-.1853	-.3156						
70.000		.5459	.3100	.1693	.0458			-.1070	-.2748	-.7502	-.0755	.0428	.0905	.0905	
90.000	.7729	.5635	.3437	.1915	.1153			-.0903	-.3183	-.6919	-.1062	.0309	.0838	.0838	
120.000		.5870	.3729	.2987	.2969			.1424	-.2361	-.6224	-.2084	.0227	.0518	.0518	
140.000									-.1887						
150.000		.5330	.4171	.3427	.3639				-.2820	-.9332	-.1727	.0074	.0288	.0288	
151.000								.7064							
158.000								.6417							
162.000								.3732							
165.000								.7065							
169.000								.8263							
174.000								.5823							
180.000	1.2000	.7439	.4557	.3734	.3271	.5498			-.8652	-.6062	-.1178	-.0074	.0124	.0124	

X/L2 .6530 .7500 .7810 .8230 .8820 .9250 .9630 1.0020 1.0210 1.0480

X/L2	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	.0861	.1331	.2039	.1796	-.3118	-.3324	-.3125		-.2971	-.2905					
40.000	.0785	.1942	.3937	-.0709	-.3088	-.3070	-.3025		-.2843	-.2650					
70.000	-.0031	-.0532	.0131	.1138	-.0018	.0203	-.0726								
90.000	.0296	.0017	.0703	.0971	-.0147	.0216	-.1058								
105.000			.1597	.0161	-.0539	-.0766	-.1320								
110.000															
120.000	.0826	.1118	.3277	.0166	-.0823	-.0696	-.1278	-.2197							
135.000		.5633	.1781	-.0420	-.0347	-.1493		-.1870							
150.000	.0459	.1700	.5727	.2416	.0133	-.0307	-.2324								
165.000	.0577	.3147		.0956	-.0332	-.2561									
180.000	.0574	.1480	.3095	.4673											

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 1A14 01+112+512E9+AT10 CRB. FUSELAGE (R21231)

ALPHA(3) = -6.140 BETA(4) = -3.220

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2520	.3010	.3750	.4990	.5760
PHI	.000	1.2160	.5369	.1547	.1253	.2345	.0000	-.3350	-.2641	-.2410	-.1319	-.0668	.0078	.0569	
20.000			.2046	-.1436	.1659	-.7230	-.3734	-.2594	-.2328	-.3740	-.1171	-.0528	.0468	.1060	
40.000			.3347	.1509	.1183	-.2529	-.3136	-.2215	-.3626	-.3217	-.7978	-.0863	.0366	.0873	
55.000			.4356	.2147	.1080	-.0981	-.1536	-.1427	-.3760	-.7424	-.1539	.0376	.0794	.0524	
70.000			.4885	.2537	.1132	-.0091	-.0922	-.2907	-.3343	-.6596	-.2733	.0378	.0524	.0428	
90.000		.7031	.5125	.2892	.1378	.0469			-.5599	-.6997	-.2157	.0275	.0428		
120.000			.5925	.3356	.2993	.2589									
140.000			.5241	.4031	.3222	.3493		.2709							
150.000								.6125							
151.000								.3516							
156.000									-.6679	-.7948	-.1331	.0167	.0312		
162.000								.6989							
165.000							.8330		-.9647	-.7714	-.0843	.0080	.0324		
169.000															
174.000															
180.000	1.2160	.7541	.4766	.3854	.3389	.3638		.6177							
X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI	.000	.0813	.1072	.1843	.1761	-.3091	-.3399	-.2938	-.2992	-.2875					
40.000		.0657	.1606	.3324	-.1260	-.3031	-.3055	-.2961	-.2902	-.2741					
70.000		-.0007	-.0651	-.0157	.0605	-.0305	-.0110	-.0900							
90.000		.0287	-.0028	.0407	.0542	-.0387	-.0497	-.1188							
105.000			.1229	-.0258	-.0956	-.0987	-.1402								
110.000								-.2217							
120.000		.0599	.1124	.2653	-.0513	-.1337	-.1079	-.1616	-.2082						
135.000				.9800	.1753	-.0921	-.0872	-.1873							
150.000		.0724	.1746	.3944	.2657	-.0472	-.0780	-.2837							
165.000		.0702		.3303		.0199	-.0823	-.3151							
180.000	.0710	.1363	.3207	.5040											

ALPHA(3) = -6.030 BETA(5) = -1.620

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2520	.3010	.3750	.4990	.5760
PHI	.000	1.2210	.5442	.1990	.1290	.2314	.0000	-.3132	-.2602	-.2416	-.1223	-.0346	.0164	.0408	
20.000			.1947	.1549	.1866	-.7641	-.3378	-.2634	-.2409	-.3613	-.1199	-.0346	.0472	.0948	
40.000			.3017	.1323	.1033	-.3104	-.3142	-.2409	-.3613	-.1199	-.0346	.0472	.0948		
55.000			.3820	.1714	.0654	-.1501	-.2515	-.4026	-.3684	-.7707	-.0990	.0485	.0845		
70.000			.4331	.1997	.0654	-.0565	-.2003	-.3684	-.7707	-.0990	.0485	.0845	.0948		
90.000		.6342	.4353	.2348	.0849	-.0191	-.1923	-.4358	-.7693	-.1763	.0476	.0798	.0948		

(RE1831)

ARC11-716 IA14 01-712-S12M25+AT10 CR9. FUSELAGE

ALPHA(3) = -6.030 BETA(5) = -1.620

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
140.000			.5060	.2933	.2176	.2113		.0444		-.4175	-.6926	-.3050	.0375	.0536	
150.000										-.4425					
151.000			.9050	.5921	.3080	.3314		.2275		-.7637	-.8958	-.2082	.0348	.0453	
156.000								.5712							
162.000								.3166		-.6625	-.7787	-.1129	.0338	.0411	
165.000								.6938							
169.000															
174.000		.7489	.4833	.3953	.3405	.3681	.6263	.6375		-.9724	-.8176	-.0956	.0277	.0426	
180.000	1.2210	.6930	.7900	.7810	.6230	.6820	.9630	1.0020	1.0210	1.0480					

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
100.000			.0637	.0919	.1536	.1213	-.2682	-.3130	-.2800						
110.000			.0467	.1242	.2775	-.1904	-.2803	-.2702	-.2620						
120.000			.0063	-.0037	-.0368	.0487	-.0316	-.1007							
130.000			.0396	-.0054	.0125	.0174	-.0910	-.0699	-.1397						
140.000					.0906	-.0748	-.1349	-.1243	-.1366						
150.000	.0640	.1027	.1927	-.1498	-.1677	-.1422	-.1874	-.2133	-.2616	-.2767					
155.000			.9091	.1445	-.1419	-.1338	-.2317		-.2754	-.2608					
160.000	.0634	.1775	.4236	.2839	-.1116	-.1218	-.3122								
165.000	.0815		.5317		-.0399	-.1222	-.3122								
180.000	.0796	.1689	.3343	.5240											

ALPHA(3) = -6.030 BETA(5) = .000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
20.000			.1922	.1261	.2196	.0000		-.2997		-.2455	-.2396	-.1297	-.0374	.0280	.0337
40.000			.1608	.1217	.1725	-.6112		-.3523		-.2736					
50.000			.2619	.1089	.0751	-.3719		-.2796		-.2577	-.3843	-.1123	-.0381	.0357	.0611
60.000			.3261	.1254	.0215	-.2042		-.3022		-.4275					
70.000			.3734	.1449	.0108	-.1047		-.6394		-.4109	-.8437	-.1262	.0417	.0725	
80.000		.3549	.3949	.1764	.0296	-.0992		-.2462		-.4993	-.8149	-.2103	.0410	.0660	
100.000			.4574	.2415	.1687	-.092		-.0141		-.9028	-.7530	-.3305	.0279	.0389	
140.000								-.5967		-.8279	-.9127	-.1485	.0275	.0376	
150.000			.4848	.3764	.2935	.3050		.1809							
151.000								.5337							
190.000															
196.000															
198.000															

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 1A:4 01:12:510E9-AT10 ORB. FUSELAGE (R21931)

ALPHA(3) = -6.030 BETA(7) = 1.440

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.000	.6516	.0570	.0480	-.0552	-.3124	-.3020	-.2941		-.2460	-.2481
40.000	.0232	.0290	.0468	-.1957	-.3685	-.3193	-.2853		-.2460	-.2434
70.000	-.0004	-.0759	-.0845	-.0200	-.1691	-.0905	-.1506			
90.000	.0274	-.0199	-.0363	-.0664	-.1610	-.1313	-.1949			
105.000		.0260	-.1681	-.2060	-.1672	-.2214				
110.000										
120.000	.0455	.0714	.0477	-.3008	-.2098	-.2329	-.2600			
135.000			.2631	.0704	-.4190	-.2674	-.3324			
150.000	.0488	.1966	.4385	.3175	-.3345	-.2309	-.3619			
165.000	.0694		.3555		-.1620	-.2304	-.3126			
180.000	.0756	.1601	.3276	.2685						

ALPHA(3) = -6.180 BETA(8) = 3.330

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2220	.3010	.3790	.4990	.5760
PHI															
.000	1.2010	.7167	.1321	.1202	.1973	.0000		-.3319	-.2460	-.2449	-.1847	-.0848	-.0054	.0183	
20.000		.1412	.0974	1.422	-.1614			-.3373	-.2731	-.3039	-.1370	-.0632	.0156	.0492	
40.000		.1783	.0600	.0286	-.4799			-.3710	-.2709	-.4276	-.6514	-.2993	.0302	.0646	
55.000		.2181	.0402	-.0513	-.2902			-.3304	-.4626	-.6403	-.4977	-.4618	.0238	.0604	
70.000		.2577	.0434	-.0836	-.1954			-.3274	-.6403	-.6432	-.8561	-.4046	-.0432	.0193	
90.000		.3060	.2785	.0649	-.0663	-.1547		-.1310	-.6949	-.6947	-.9238	-.1197	-.0220	.0151	
105.000			.3529	.1412	.0545	.0721									
140.000			.4212	.3149	.2276	.2449		.0679							
150.000								.4253							
151.000								.1909							
156.000								.6142							
162.000															
165.000															
174.000															
180.000	1.2010	.7116	.4612	.3906	.3313	.3603	.7714	.6345	-.8664	-.8757	-.0876	-.0151	.0154		
X/L	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0460					

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2220	.3010	.3790	.4990	.5760
PHI															
.000	.0302	.0467	.0631	-.0369	-.2692	-.2937	-.5002		-.2934	-.2642					
40.000	.0111	.0114	.0917	-.3353	-.4541	-.3545	-.2682		-.2689	-.2939					
70.000	.0047	-.0483	-.0974	-.0406	-.2164	-.1254	-.1540								
90.000	.0262	-.0191	-.0590	-.0823	-.2487	-.1992	-.1690								
105.000		.0099	-.1079	-.2090	-.2165	-.2165									
110.000															

ORIGINAL PAGE IS OF POOR QUALITY



DATE 09 DEC 74 TABULATED PRESSURE DATA - IAI4A - VOL. 3

REC11-716 IAI4 ON-TIG-SIEMENS-AT10 CFB. PUSLAGE

(R01831)

ALPHA(1) = -6.100 BETA(1) = 3.330

SECTION (1) ORBITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.0406	.0643	-.0209	-.3744	-.4110	-.2637	-.2694	-.2554		
135.000		.5645	.0258	.0258	-.7945	-.3032	-.3685			
150.000	.0386	.1316	.4447	.3365	-.3527	-.3335	-.3713			
165.000	.0637	.3561		-.2337	-.3987	-.2504				
180.000	.0685	.1321	.3220	.2670						

ALPHA(1) = -6.100 BETA(1) = 5.010

SECTION (1) ORBITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.2050	.2520	.3010	.3790	.4990	.5760
PHI														
.000	1.1760	.4878	.1031	.1022	.1631	.0000		-.3232	-.2833	-.2905	-.1690	-.1080	-.0276	-.0076
20.000		.1017	.0700	.1218	-.9091			-.3463	-.3015	-.2965	-.1601	-.0927	-.0056	.0315
40.000		.1227	.0282	.0274	-.5381			-.3708	-.3326	-.3308	-.1601	-.0927	-.0056	.0315
55.000		.1557	-.0032	-.0866	-.3335			-.4171	-.4326	-.4771	-.3771	.0048	.0568	
70.000		.1940	-.0091	-.1265	-.2232			-.3426	-.3122	-.4771	-.3771	.0048	.0568	
90.000		.2514	.0087	-.1290	-.1946			-.3543	-.3831	-.6085	-.9038	-.0420	.0497	
105.000		.2963	.0682	-.0099	.0107			-.2040	-.7125	-.6398	-.4281	-.1032	.0105	
120.000									-.9369	-.9132	-.9175	-.1155	-.0638	-.0081
130.000									-.0002					
131.000														
136.000									.3625					
162.000														
165.000														
168.000														
174.000														
180.000	1.1770	.6038	.4739	.3610	.3244	.3504		.5774		-.8645	-.8985	-.0754	-.0470	-.0066

W/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0296	.0533	.0929	.0104	-.3071	-.3177	-.3105		-.2986	-.2664
40.000	.0018	.0085	.0884	-.3959	-.5153	-.4077	-.2950		-.2986	-.2664
70.000	.0043	-.0782	-.1125	-.0823	-.2643	-.1887	-.1880		-.2986	-.2664
90.000	.0157	-.0301	-.0813	-.1248	-.2060	-.2187	-.1917		-.2986	-.2664
105.000		-.0801	-.0206	-.3379	-.2500	-.2197			-.2986	-.2664
110.000									-.2986	-.2664
120.000	.0345	.0478	-.0894	-.4964	-.6889	-.3332	-.2741		-.2986	-.2664
135.000			.3587	-.0363	-.6704	-.4388	-.3685		-.2986	-.2664
150.000	.0419	.1353	.4441	.3759	-.4337	-.4788	-.3825		-.2986	-.2664
165.000	.0418	.3475			-.2815	-.4677	-.2472		-.2986	-.2664
180.000	.0333	.1482	.3103	.3034					-.2986	-.2664

DATE ON DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

MS12311

ARC11-716 1A14 04-712-S12MS-AT10 CRD. PUSLAGE

ALPHA(3) = -6.140 BETA(10) = 6.740

SECTION (1) CRITTER PUSLAGE DEPOSIT VARIABLE CP

K/L	.0000	.0030	.0230	.0470	.0700	.1120	.1790	.1870	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.1490	.4887	.0813	.0866	1.081	.0000	-.3236	-.3211	-.3166	-.2208	-.1455	-.0766	-.0469	
20.000				.0675	.0396	1.087	-9.706	-.3315	-.3300						
40.000				.0883	-.0033	-.0144	-.6432	-.3198	-.3337	-.3268	-.2153	-.1360	-.0313	.0243	
75.000				.0960	-.0479	-.1230	-.3834	-.3932	-.4499						
70.000				.1342	-.0576	-.1703	-.2769	-.3408	-.5475	-.4439	-.4288	-.0329	.0467		
90.000		.1932	.1955	-.0471	-.1753	-.2470	-.3323	-.7072	-.7072	-.3104	-.3231	-.0845	-.0731		
120.000		.2313	.0316	-.0725	-.0404		-.2639	-.7635	-.7635	-.9517	-.4416	-.1540	-.0448		
140.000								-.1.0020							
150.000			.3303	.2963	.1472	.1799		-.9267	-.9267	-.9360	-.1119	-.1092	-.0365		
151.000							.3016	-.0784							
156.000								.0905							
162.700								-.6903	-.6903	-.6933	-.0833	-.0661	-.0367		
165.017															
169.000															
174.070															
180.000															
K/L	.0000	.0030	.0700	.0230	.0470	.1120	.1790	.1870	.1760	.2030	.2320	.3010	.3790	.4990	.5760

K/L	.0000	.0030	.0230	.0470	.0700	.1120	.1790	.1870	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	.0087	.0346	.0866	.0149	-.3285	-.3294	-.3354	-.2948	-.2641					
20.000				.0054	.0090	-.4479	-.5643	-.4094	-.3181	-.3055					
40.000				.0074	-.0759	-.1273	-.0995	-.3171	-.2023	-.1938					
70.000				.0055	-.0447	-.1068	-.477	-.3411	-.2335	-.2251					
90.000															
105.200															
110.000															
120.200		.0248	.0346	-.1682	-.9370	-.5995	-.6021	-.3187	-.2870						
135.000				.6691	-.1028	-.7657	-.7181	-.4678							
150.000		.0223	.1131	.4307	.3670	-.4682	-.9617	-.4428							
165.000		.0218		.3379		-.2886	-.5320	-.2806							
190.000		.0237	.1233	.2956	.4770										

ALPHA(3) = -6.140 BETA(11) = 6.500

SECTION (1) CRITTER PUSLAGE DEPOSIT VARIABLE CP

K/L	.0000	.0030	.0230	.0470	.0700	.1120	.1790	.1870	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.1070	.6243	.0406	.0603	1.627	.0000	-.3431	-.3614	-.3402	-.2619	-.1954	-.1211	-.0900	
20.000				.0182	.0049	.0667	-1.0410	-.7936	-.3722						
40.000				.0073	-.0377	-.0365	-.7378	-.3677	-.3601	-.3236	-.2366	-.1894	-.0523	.0094	
55.000				.0321	-.0829	-.1307	-.4356	-.4231	-.4017						
70.000				.0086	-.1121	-.2043	-.3088	-.3943	-.3366	-.4310	-.4297	-.0918	.0403		
90.000		.0675	.0666	-.1091	-.2277	-.2506		-.4989	-.5824	-.3204	-.3292	-.1279	.0165		

ORIGINAL PAGE IS OF POOR QUALITY



0810311

ARC11-716 1A14 04+712+512+5+AT10 CRB. PUSBLAGE

ALPHA(3) = -6.140 BETA(11) = 8.500

SECTION (11) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/L	.0000	.0040	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PM1															
120.000			.1626	-.0948	-.1263	-.1079		-.3993		-.8669	-.5405	-.4591	-.2062	-.0190	
140.000										-1.0670					
160.000			.2490	.2093	.1102	.1094				-.9393	-.9391	-.1647	-.1336	-.0746	
181.000								.2412							
196.000									.0470		-.8377	-.8622	-.1063	-.1269	-.0716
162.000								.4975							
163.000															
169.000															
174.000															
160.000	1.1070	.0193	.4239	.3339	.2736	.3266	.6367		.3130	-1.0690	-.6934	-.0998	-.1036	-.0466	
W/L	.6730	.7900	.7910	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0490					

PM1

.000	-.0234	.0078	.0463	.0198	-.3313	-.3334	-.3376		-.3077	-.2666					
40.000	-.0190	-.0107	.0476	-.4663	-.3673	-.3923	-.3275		-.3301	-.3249					
70.000	.0060	-.0803	-.1443	-.1140	-.3486	-.2487	-.2235								
90.000	-.0123	-.0444	-.1266	-.1736	-.3616	-.2916	-.2426								
105.000			-.0673	-.2663	-.4323	-.3303	-.2602								
110.000								-.2220							
120.000	.0163	.0276	-.2477	-.0266	-.6322	-.4760	-.4361								
135.000			.4266	-.1916	-.6366	-.6374	-.5910								
190.000	-.0039	.0919	.4296	.4016	-.3036	-.6174	-.5163								
146.000	-.0091		.3297		-.3163	-.3742	-.2662								
140.000	-.0063	.0991	.2732	.4731											

ALPHA(4) = -4.170 BETA(11) = -9.940

SECTION (11) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/L	.0000	.0040	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PM1															
20.000			.1239	.0770	.1692	.0000		-.4032		-.2932	-.2730	-.1664	-.1233	-.0021	.0492
40.000			.2273	.1403	.1699	-.3179		-.3430		-.2721					
60.000			.4824	.2333	.1810	-.0064		-.3134		-.2176	-.2609	-.1468	-.0760	.0610	.1674
80.000			.6993	.4183	.2962	.1476		-.0235		-.1164					
70.000			.7237	.4863	.3402	.2334		-.1077	-.4759	-.4759	-.0936	.0417	.0930		
90.000	.9702		.7130	.3081	.3432	.2399	.0793		-.1450	-.3290	-.1489	.0247	.0879		
120.000			.6634	.4337	.3623	.3493	.2939		-.1036	-.4992	-.5493	-.0332	-.0871		
140.000								-.1147							
190.000			.4621	.3686	.3060	.3483			-.2017	-.3686	-.2714	-.0778	-.0370		
191.000								.6893							
196.000															
162.000															

.4291

AR-11-716 1A14 01-T12-S12H25-R110 ORB. FUSELAGE (RB1931)

ALPHA(4) = -4.170 BETA(1) = -9.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI								.6823							
165.000															
169.000							.7894								
174.000															
180.000	1.1060	.6528	.3304	.2622	.2331	.2636									
X/LB	.6530	.7300	.7810	.6230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.1184	.1714	.2338	.2633	.3360	.3600	.3331								
40.000	.1503	.2750	.4686	-.0329	-.3367	-.3476	-.3346								
70.000	-.0696	-.0963	.0369	.2032	.0903	.0898	-.0164								
90.000	-.0297	-.0342	.1273	.2032	.0754	.0316	-.0601								
105.000			.2367	.1639	.0365	-.0082	-.0813								
110.000															
120.000	-.0623	.0360	.4907	.2022	.0226	.0223	-.0586								
135.000			.4547	.1231	.0372	.0496	-.0695								
150.000	-.0533	.0659	.2471	.1418	.1483	.0802	-.1963								
165.000	-.0401		.2217	.2430	.0726	-.3393									
180.000	-.0629	.0328	.2379	.3954											

ALPHA(4) = -4.190 BETA(2) = -7.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0280	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1370	.5256	.1428	.0971	.2095	.0000									
20.000			.2246	.1466	.1848	-.4194									
40.000			.4454	.2127	.1678	-.0765									
55.000			.3929	.3357	.2393	.0779									
70.000			.6553	.4117	.2721	.1456									
90.000		.6803	.6503	.4247	.2647	.2020									
120.000			.6251	.4119	.3363	.3294									
140.000			.4968	.3782	.3084	.3469									
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000	1.1370	.6817	.3684	.2933	.2590	.2939									
180.000															
X/LB	.6530	.7300	.7810	.6230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000															

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TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 01-T12-S12M25-A110 CRB. FUSELAGE (RP1931)

ALPHA(4) = -4.190 BETA(2) = -7.970

SECTION (1) CRBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1175	.1690	.2471	.2554	-.3227	-.3435	-.3235		-.3115	-.2970
40.000	.1370	.2578	.4525	-.0457	-.3213	-.3330	-.3181		-.2944	-.2779
70.000	-.0647	-.1136	.0290	.1706	.0546	.0646	-.0351			
90.000	-.0274	-.0475	.0970	.1622	.0367	.0258	-.0787			
105.000		.2047	.1028	-.0622	-.0236	-.0994				
110.000									-.2178	
120.000	-.0503	.0499	.4137	.1385	-.0160	-.0074	-.0806		-.1818	
135.000		.4961	.1383	.0124	.0211	-.1104				
150.000	-.0195	.1110	.2926	.1664	.0931	.0375	-.2166			
165.000	-.0193		.2324		.1841	.0313	-.3207			
180.000	-.0195	.0845	.2508	.4131						

ALPHA(4) = -4.210 BETA(3) = -5.970

SECTION (1) CRBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.1680	.5912	.1566	.1111	.2219	.0000		-.3549	-.2592	-.2526	-.1483	-.0680	.0162	.0742	
20.000		.2250	.1457	.1862	-.5557		-.3875	-.2537	-.2112	-.3484	-.1553	-.0580	.0644	.1423	
47.000		.4043	.1682	.1490	-.1451		-.3010	-.2539	-.2285	-.7189	-.1021	.0288	.0750		
55.000		.5299	.2949	.1820	.0064		-.1442	-.2663	-.2285	-.6509	-.1517	.0229	.0736		
70.000		.5793	.3385	.2012	.0809		-.0624	-.2238	-.0482	-.6012	-.5437	.0024	.0241		
90.000	.8010	.5626	.3382	.2123	.1484		-.1770	-.1940							
120.000		.5783	.3664	.2861	.2904			-.2484	-.9965	-.2869	-.0029	.0013			
140.000		.4923	.3713	.3011	.3408		.3175								
150.000							.6476								
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.1680	.6933	.5929	.3218	.2745	.3056	.8189								
X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.1154	.1962	.2515	.2183	-.3180	-.3250	-.3190		-.3007	-.2800					
40.000	.1211	.2555	.4326	-.0545	-.3019	-.3106	-.3016		-.2850	-.2668					
70.000	-.0813	-.1237	-.0089	.1274	.0077	.0328	-.0372								
90.000	-.0223	-.0522	.0599	.1061	-.0107	-.0072	-.0920								
105.000		.1642	.0338	-.0504	-.0612	-.1154									
110.000															

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ARC11-716 IAI14 01+112+S12N25+AT10 ORB. FUSELAGE (RB1B31)

ALPHA(4) = -4.210 BETA(3) = -5.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0098	.0630	.3494	.0564	-.0663	-.0485	-.1127	-.1846		
135.000			.5418	.1369	-.0325	-.0209	-.1407			
150.000	.0127	.1270	.3258	.1890	.0303	-.0167	-.2431			
165.000	.0125		.2769		.1102	-.0209	-.3130			
180.000	.0141	.1107	.2787	.4193						

ALPHA(4) = -4.190 BETA(4) = -3.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
20.000	1.2120	.5365	.1575	.1166	.2286	.0000		-.3342		-.2485	-.2445	-.1432	-.0780	.0227	.0737
40.000			.2161	.1421	.1825	-.6846		-.3722		-.2413					
55.000			.3627	.1640	.1266	-.2221		-.3074		-.1983	-.3618	-.1273	-.0582	.0583	.1306
70.000			.4633	.2333	.1272	-.0608		-.1886		-.3258					
90.000	.7207		.3097	.2700	.1393	.0161		-.1191		-.2884	-.7492	-.1189	.0287	.0718	
120.000			.3033	.2998	.1903	.0857		-.1020		-.3387	-.6956	-.1867	.0274	.0711	
140.000			.5388	.3176	.2460	.2589		.1210		-.3100	-.6476	-.4426	.0277	.0333	
150.000			.4336	.3668	.2929	.3209			.2804	-.4419	-.9733	-.3011	.0291	.0237	
151.000								.6209							
156.000									.3497						
162.000										-.8889	-.8303	-.2460	.0153	.0103	
165.000															
169.000															
174.000						.8113		.6890							
180.000	1.2120	.7032	.4172	.3346	.2922	.3192		.5845		-.10560	-.8231	-.1766	.0064	.0130	

ALPHA(4) = -4.190 BETA(4) = -3.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
20.000	.1089	.1480	.2104	.1755	-.3035	-.3193	-.2878		-.2950	-.2717
40.000	.1018	.2059	.3836	-.0801	-.2938	-.3006	-.2920		-.2790	-.2562
55.000	-.0568	-.1256	-.0386	.0779	-.0319	-.0003	-.0766			
70.000	-.0196	-.0600	.0276	.0551	-.0383	-.0396	-.1064			
90.000			.1227	-.0319	-.0965	-.0930	-.1325			
110.000								-.2111		
120.000	.0103	.0723	.2892	-.0334	-.1199	-.0888	-.1444	-.1952		
135.000			.5475	.1263	-.0906	-.0717	-.1743			
150.000	.0340	.1406	.5402	.2126	-.0533	-.0786	-.2696			
165.000	.0362		.2934		.3267	-.0838	-.3032			
180.000	.0356	.1283	.2840	.4766						



ARC11-716 1A14 01+712+S12N25+AT10 CRB. FUSELAGE (R91231)

ALPHA(4) = -4.180 BETA(5) = -1.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.2220	.5696	.1966	.1209	.2208	.0000	-.3191	.2293	-.2456	-.1329	-.0489	.0192	.0560	
20.000			.2049	.1212	.1788	-.7820		-.3370		-.2511					
40.000			.3186	.1324	.1003	-.2981		-.3171		-.2167	-.3708	-.1250	-.0487	.0512	.1138
55.000			.3967	.1793	.0732	-.1377		-.2299		-.3728					
70.000			.4399	.2045	.0683	-.0494		-.1726		-.3442	-.7853	-.1362	.0311	.0677	
90.000		.6308	.4448	.2357	.0843	.0161		-.1666		-.4138	-.7548	-.2131	.0318	.0689	
120.000			.4900	.2700	.1992	.2161		.0641		-.3974	-.6868	-.3024	.0451	.0404	
140.000										-.4540					
150.000			.4663	.3454	.2686	.3044				-.7640	-.9401	-.2373	.0473	.0330	
151.000									.2293						
156.000								.5787							
162.000									.3096						
165.000										-.8958	-.8287	-.1926	.0337	.0251	
169.000															
174.000								.6729							
180.000	1.2220	.7015	.4320	.3444	.2980	.3306	.8191	.6164		-.9477	-.8615	-.1520	.0305	.0273	

X/LB .6530 .7500 .7810 .8230 .8820 .9230 .9630 1.0020 1.0210 1.0480

PHI

.000	.0664	.1209	.1804	.1328	-.2931	-.3178	-.2693			-.2808	-.2696				
40.000	.0792	.1636	.3029	-.1483	-.2790	-.2792	-.2760			-.2730	-.2467				
70.000	-.0499	-.1239	-.0681	.0363	.0812	-.0320	-.0962								
90.000	-.0129	-.0542	-.0034	.0055	-.1105	-.0728	-.1291								
105.000			.0821	-.0787	-.1409	-.1169	-.1550								
110.000								-.2249							
127.000	.0254	.0735	.2106	-.1076	-.1678	-.1328	-.1785	-.2067							
135.000			.5369	.1327	-.1526	-.1291	-.2094								
150.000	.0483	.1471	.3674	.2415	-.1314	-.1341	-.2943								
165.000	.0491		.3060		-.0661	-.1393	-.3110								
180.000	.0527	.1362	.2978	.4836											

ALPHA(4) = -4.180 BETA(6) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.2220	.5967	.1494	.1155	.2033	.0000	-.2958		-.2338	-.2328	-.1351	-.0294	.0376	.0634
20.000			.1840	.1113	.1616	-.8131		-.3498		-.2624					
40.000			.2661	.1027	.0711	-.3753		-.3000		-.2437	-.3731	-.1234	-.0420	.0452	.0926
55.000			.3279	.1163	.0166	-.2024		-.2694		-.4030					
70.000			.3650	.1321	-.0039	-.1119		-.2311		-.3997	-.8307	-.1920	.0317	.0648	
90.000		.5331	.3788	.1811	.0156	-.0721		-.2316		-.4853	-.8138	-.2036	.0347	.0638	

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ARC11-716 1A14 C6+T12+S12N9+AT10 CRB. FUSELAGE (RB1831)

ALPHA(4) = -4.180 BETA(6) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5780
PHI															
120.000		.4303	.2137	.1425	.1551										
140.000															
150.000		.4431	.3371	.2522	.2760										
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.2220	.6943	.4394	.3480	.2991	.3358	.7905								
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.0768	.0815	.0727	-.0623	-.3091	-.2998	-.2844								
40.000	.0308	.0899	.1687	-.1229	-.2816	-.2983	-.2712								
70.000	-.0422	-.1147	-.0910	-.0037	-.1527	-.0724	-.1342								
90.000	-.0108	-.0300	-.0367	-.0427	-.1693	-.1131	-.1561								
105.000		.0416	-.1290	-.1322	-.1608	-.1967									
110.000															
120.000	.0238	.0640	.1190	-.2220	-.1979	-.1820	-.2219								
135.000		.3733	.0914	-.2122	-.2020	-.2768									
150.000	.0915	.1440	.4026	.2720	-.2471	-.1980	-.3468								
165.000	.0325	.3245		-.1563	-.2037	-.3235									
180.000	.0378	.1413	.3048	.9003											

ALPHA(4) = -4.170 BETA(7) = 2.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5780
PHI															
.000	1.2160	.5309	.1425	.1110	.1986	.0000									
20.000		.1603	.1019	.1454	-.8691										
40.000		.2141	.0755	.0360	-.4451										
55.000		.2587	.0648	-.0346	-.2604										
70.000		.2941	.0702	-.0672	-.1641										
90.000	.4368	.3107	.0958	-.0486	-.1222										
120.000		.3716	.1568	.0818	.0978										
140.000															
150.000		.4076	.3060	.2098	.2447										
151.000															
156.000															
162.000															



ARC11-716 1A14 CR+T12+S12N2+AT10 CRB. FUSELAGE (RB1B31)

ALPHA(4) = -4.170 BETA(7) = 2.020

SECTION (1) CRBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5790
PHI															
165.000															
169.000															
174.000															
180.000	1.2160	.6776	.4370	.3538	.2945	.3335	.7804								
X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.0745	.0778	.0600	-.0604	-.3067	-.3025	-.2785								
40.000	.0904	.0483	.0652	-.2081	-.3611	-.3130	-.2703								
70.000	-.0398	-.1130	-.1101	-.0460	-.2303	-.1144	-.1568								
90.000	-.0061	-.0528	-.0604	-.0842	-.2439	-.1539	-.1868								
105.000			.0106	-.1723	-.2747	-.2098	-.2153								
110.000															
120.000	.0239	.0308	.0392	-.3067	-.4003	-.2400	-.2498								
135.000			.5922	.0593	-.3268	-.2750	-.3259								
150.000	.0440	.1347	.4106	.2947	-.3885	-.2590	-.3830								
165.000	.0437		.3278		-.2264	-.3035	-.2959								
180.000	.0456	.1343	.2591	.4975											

ALPHA(4) = -4.240 BETA(8) = 4.040

SECTION (1) CRBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5790
PHI															
.000	1.1920	.3260	.1196	.1037	.1804	.0000									
20.000			.279	.0901	.1279	-.6828									
40.000			.1561	.0399	.0078	-.5032									
55.000			.1875	.0130	-.0762	-.3122									
70.000			.2224	.0085	-.1169	-.2172									
90.000		.3313	.2404	.0303	-.1227	-.1750									
120.000			.3064	.0970	.0125	.0397									
140.000															
150.000			.3704	.2671	.1800	.2075									
151.000															
155.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.1920	.6825	.4339	.3448	.2892	.3235	.7461								
X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

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ARC11-716 IA1A 01+112+312N3+AT10 CRD. FUSELAGE (R51B31)

ALPHA(4) = -4.240 BETA(8) = 4.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0694	.0686	.1025	-.0136	-.3155	-.3067	-.2671		-.2492	-.2415
40.000	.0318	.0362	.0767	-.2932	-.3227	-.3082	-.2791		-.2410	-.2271
70.000	-.0340	-.1110	-.1288	-.0666	-.3031	-.1618	-.1777			
90.000	-.0016	-.0919	-.0867	-.1208	-.3244	-.2175	-.2143			
105.000			-.0196	-.2064	-.3672	-.2636	-.2362			
110.000								-.2684		
120.000	.0177	.0412	-.0369	-.3994	-.9129	-.3369	-.2691		-.2674	
135.000			.5305	.0083	-.6303	-.4026	-.3549			
150.000	.0316	.1257	.4061	.3104	-.4376	-.4624	-.3903			
165.000	.0343	.0343	.3233	-.2768	-.4669	-.2794				
180.000	.0325	.1262	.2655	.4975						

ALPHA(4) = -4.230 BETA(9) = 6.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1620	.9036	.0961	.0680	.1616	.0000		-.3097	-.2927	-.3022	-.1994	-.1242	-.0361	-.0093	
20.000			.0661	.0560	.1063	-.9386		-.3425	-.2991	-.3122	-.1937	-.1120	-.0064	.0403	
40.000			.0937	-.0012	-.0137	-.6019		-.3777	-.3131	-.3469	-.1937	-.1120	-.0064	.0403	
50.000			.1184	-.0447	-.1245	-.3696		-.3232	-.4163	-.5094	-.4691	-.3675	-.0450	.0421	
70.000			.1504	-.0462	-.1709	-.2665		-.3363	-.6692	-.4946	-.5154	-.0700	.0421	.0421	
90.000			.2176	.1714	-.0362	-.1791	-.2291	-.2297	-.7387	-.5638	-.4789	-.1102	.0131	.0131	
120.000			.2397	.0326	-.0632	-.0258		-.9970	-.9439	-.9639	-.2020	-.0623	-.0193		
140.000			.3127	.2318	.1231	.1322		-.0497							
150.000								.3180							
156.000									.0969						
162.000										-.6576	-.9104	-.1342	-.0576	-.0237	
165.000															
169.000															
174.000															
180.000	1.1620	.6169	.4106	.3206	.2623	.3027	.6947	.5994							
W/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0736	.1054	.0194	-.3755	-.3377	-.2923
PHI							
.000	.0435	.0347	.0978	-.3486	-.3400	-.3296	-.3037
40.000	.0245	.0347	.0978	-.3486	-.3400	-.3296	-.3037
70.000	-.0291	-.1041	-.1443	-.0920	-.3287	-.1993	
90.000	-.0041	-.0322	-.1083	-.1310	-.3603	-.2900	-.2227
105.000			-.0456	-.2250	-.4196	-.3433	-.2366
110.000							-.2314



APC11-716 1A14 01+112+S12N29+1110 CRB. FUSELAGE (R81031)

ALPHAC(4) = -4.230 BETA(3) = 6.050

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI	.0112	.0296	-.1117	-.4934	-.5656	-.4094	-.3216	-.2503		
120.000		.4936	-.0617	-.7199	-.5881	-.4819				
135.000	.0139	.1086	.4051	.3262	-.4773	-.5438	-.4188			
150.000	.0112	.5197		-.3032	-.5289	-.2775				
165.000	.0123	.1091	.2776	.4499						
180.000										

ALPHAC(4) = -4.200 BETA(10) = 6.070

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI	1.1190	.4541	.0551	.0376	.1308	.0000		-.3406	-.3044	-.3329	-.2394	-.1702	-.0469	-.0572	
20.000		.0350	.0045	.0703	-1.0120		-.3695		-.3376						
40.000		.0191	-.0645	-.0515	-.7275		-.3253		-.3578	-.3179	-.2352	-.1693	-.0283	.0272	
55.000		.0415	-.1014	-.1674	-.4416		-.3568		-.4119						
70.000		.0762	-.1142	-.2191	-.3221		-.3491		-.5423	-.4214	-.4164	-.0539	.0338		
90.000	.0968	.0936	-.1145	-.2304	-.2811		-.3360		-.6886	-.5029	-.5288	-.0636	.0249		
120.000		.1589	-.0487	-.1390	-.0976		-.3511		-.8312	-.5363	-.4688	-.1504	-.0033		
140.000		.2480	.1797	.0795	.0930			-.1388	-.9711	-.7574	-.2136	-.1228	-.0375		
150.000							.2444								
156.000								.0346							
162.000									-.8881	-.9180	-.1484	-.1042	-.0666		
165.000															
169.000							.4898								
174.000								.5352							
180.000	1.1190	.5842	.3676	.2939	.2387	.2768	.5027		-.1050	-.7704	-.1333	-.0656	-.0942		

X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI	.0044	.0396	.0749	.0119	-.4042	-.3509	-.3054		-.2643	-.2406
40.000	.0069	.0243	.0623	-.3667	-.3608	-.3381	-.3504		-.2665	-.2373
70.000	-.0266	-.1002	-.1633	-.1174	-.3603	-.2598	-.2206			
90.000	-.0206	-.0715	-.1367	-.1814	-.4169	-.2984	-.2398			
105.000		-.0750	-.2813	-.4322	-.3534	-.2826				
110.000	.0015	.0168	-.2042	-.3653	-.6326	-.4615	-.3940	-.2221		
120.000		.4028	-.1633	-.8442	-.6187	-.5326				
135.000		.0960	.3991	.3732	-.2880	-.6323	-.4989			
150.000	-.0109	.0860	.3106	-.3426	-.9915	-.2878				
165.000	-.0164	.0806	.2991	.4477						
180.000	-.0142	.0806	.2991	.4477						

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ARC11-716 1A14 01-712-S12M5-AT10 CRE. FUSELAGE (RP1231)

ALPHA(4) = -4.200 BETA(11) = 10.080

SECTION (1) CREITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2520	.3010	.3790	.4590	.5760
PHI	.000	1.0610	.4032	.0001	.0250	.1041	.0000	-.3997	-.4611	-.3182	-.3120	-.2258	-.1487	-.1061	
20.000				-.0299	-.0287	.0619	-1.1340	-.4360	-.3932						
40.000				-.0563	-.1071	-.0864	-.8537	-.4171	-.3684	-.3536	-.2859	-.1963	-.0903	.0090	
55.000				-.0341	-.1468	-.1891	-.5029	-.4215	-.3920						
70.000				.0011	-.1655	-.2516	-.3566	-.4177	-.4554	-.4488	-.4821	-.0923	.0335		
90.000				-.0370	.0243	-.1865	-.2780	-.3287	-.5420	-.5032	-.5330	-.3221	-.1455	.0090	
120.000				.0851	-.1733	-.2048	-.1702	-.4247	-.11310						
140.000				.1720	.1277	.0328	.0349		-.9899	-.7553	-.2748	-.1772	-.0917		
150.000								-.2177							
151.000								.1847							
158.000								-.0053							
162.000								.4407							
165.000									-.9320	-.8987	-.1666	-.1804	-.1063		
169.000															
174.000								.9889							
180.000								.4291							
X/LB	.6530	.7300	.7810	.8230	.8680	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.000	-.0288	.0102	.0499	.0205	-.3316	-.3323	-.3364	-.3133	-.2806					
40.000				-.0014	.0096	-.4567	-.5470	-.3606	-.3315	-.3287					
70.000				-.0321	-.1114	-.1381	-.3889	-.3032	-.2457						
90.000				-.0427	-.0911	-.1593	-.1944	-.3477	-.2630						
105.000				-.0900	-.2881	-.4943	-.3999	-.2791	-.2280						
110.000				-.0063	.0139	-.2797	-.6549	-.8923	-.5385	-.4286					
120.000				.3539	-.2398	-.9276	-.9349	-.5100	-.2912						
135.000				-.0452	.0576	.4034	-.5572	-.7030	-.5334						
150.000				-.0297	.3009		-.3733	-.6206	-.2904						
165.000				-.0385	.0467	.2379	.4163								

ALPHA(5) = -2.870 BETA(1) = -9.990

SECTION (1) CREITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2520	.3010	.3790	.4590	.5760
PHI	.000	1.1090	.3109	.1282	.0483	.1838	.0000	-.3830	-.2772	-.2621	-.1580	-.1124	.0112	.0805	
20.000				.2372	.1363	.1680	-.3186	-.3927	-.2568						
40.000				.4946	.2382	.1621	-.0015	-.2772	-.2077	-.2474	-.1401	-.0668	.0891	.1833	
55.000				.6828	.4213	.3019	.1332	-.0060	-.1056						
70.000				.7233	.4818	.3388	.2251	.0393	-.0979	-.4238	-.1178	.0319	.0829		
90.000				.9429	.7080	.4994	.3378	.2493	-.1381	-.5239	-.1796	.0159	.0732		



TABULATED PRESSURE DATA - 1A14A - VOL. 3

AFC11-716 1A14 01+112+512+25+AT10 CRG. FUSELAGE

(FE1231)

ALPHAO (5) = -2.870 BETA0 (1) = -9.990

SECTION (1) : CRIBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0060	.0230	.047	.0700	.1120	.1590	.1670	.1760	.2090	.2520	.3010	.3790	.4990	.5760
PHI															
120.000			.6432	.4270	.3561	.3322	.2751			-.1091	-.5077	-.6073	-.0761	-.0648	
140.000										-.1272					
170.000			.4590	.3362	.2790	.3175				-.2127	-1.0190	-.4021	-.0864	-.0766	
151.000							.6888		.3941						
156.000									.4104						
162.000										-.7022	-.9186	-.3006	-.1042	-.0994	
165.000							.6706								
169.000						.7716									
174.000															
180.000	.1090	.6267	.2970	.2246	.2029	.2379	.3643			-1.0810	-.8441	-.2375	-.1214	-.1053	

M/LB .6930 .7300 .7610 .8230 .8820 .9230 .9630 1.0020 1.0210 1.0480

PHI

.000	.1338	.1882	.2655	.2691	.3349	-.3529	-.3320			-.3229	-.3029				
40.000	.1714	.2890	.4774	-.0204	-.3255	-.3392	-.3275			-.3074	-.2850				
70.000	-.1065	-.1823	.0360	.2016	.0831	.0917	-.0162								
90.000	-.0667	-.0893	.1097	.1951	.0695	.0541	-.0562								
105.000			.2224	.1531	.0316	-.0044	-.0604								
110.000															
120.000	-.1342	-.0074	.4426	.1966	.0157	.0189	-.0382								
135.000			.4263	.0629	.0219	.0375	-.0973								
150.000	-.0893	.0625	.2237	.1122	.1329	.0702	-.2008								
165.000	-.0851		.2090		.2314	.0615	-.3353								
180.000	-.0821	.0368	.2279	.3701											

ALPHAO (5) = -2.890 BETA0 (2) = -7.990

SECTION (1) : CRIBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.1300	.3402	.1465	.0909	.2024	.0000				-.2616	-.2322	-.1485	-.0711	.0240	.0625
20.000			.2361	.1440	.1789	-.4261				-.2324					
40.000			.4329	.2136	.1656	-.0765				-.2262	-.3228	-.1398	-.0636	.0809	.1663
95.000			.3996	.3551	.2424	.0773				-.1579					
70.000			.6407	.4738	.2678	.1467				-.1551	-.6353	-.1351	.0164	.0727	
90.000	.8649		.6426	.4147	.2572	.1808				-.2011	-.5869	-.1655	.0157	.0635	
120.000			.6003	.3401	.3126	.3063				-.1797	-.5536	-.6216	-.0468	-.0284	
140.000										-.2163	-1.0180	-.3532	-.0383	-.0415	
150.000			.4618	.3432	.2740	.3184			.3458						
151.000															
156.000									.6647						
162.000															

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DATE 09 DEC 74 TABULATED PRESSURE DATA - IA14A - W/L 3

ALPHA(5) = -2.090 BETA(2) = -7.990 (R21831)

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/L	.0700	.0830	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2920	.3010	.3790	.4950	.5760
PHI														
165.000							.6745							
169.000														
174.000														
180.000	1.1960	.6485	.3364	.2633	.2280	.2621	.4575							
W/L	.6530	.7900	.7610	.6230	.6620	.9230	.9630	1.0210	1.0480					
PHI														
.000	.1319	.1856	.2560	.2541	-.3279	-.3485	-.3234							
40.000	.1547	.2735	.4568	-.0403	-.3126	-.3258	-.3134							
70.000	-.1071	-.1701	.0765	.1623	.0432	.0634	-.0363							
90.000	-.0680	-.0956	.0754	.1548	.0311	.0232	-.0761							
105.000		.1849	.0951	-.0120	-.0306	-.0993								
110.000														
120.000	-.0977	.0092	.3914	.1331	-.0291	-.0081	-.0824							
135.000			.4683	.1021	-.0066	.0167	-.1196							
150.000	-.0910	.0835	.2835	.1366	.0763	.0276	-.2263							
165.000	-.0430	.2307	.1603	.0162	-.3309									
180.000	-.0376	.0702	.2449	.3945										

ALPHA(5) = -2.870 BETA(3) = -5.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/L	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2920	.3010	.3790	.4990	.5760
PHI															
.000	1.1990	.9637	.1576	.1045	.2162	.0000									
20.000			.2332	.1431	.1814	-.5599									
40.000			.4188	.1925	.1465	-.1406									
55.000			.3317	.3000	.1830	.0117									
70.000			.3785	.3383	.1993	.0787									
90.000		.7906	.5572	.3408	.1877	.1365									
120.000			.5597	.3425	.2648	.2790									
140.000			.4575	.3422	.2715	.3170									
150.000															
154.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.1850	.6624	.3607	.2642	.2463	.2827									
W/L	.6530	.7900	.7610	.6230	.6620	.9230	.9630	1.0210	1.0480						



(R51231)

ARC11-716 1A14 01-T12-S12-R2-S110 DES. FUSELAGE

ALPHA(91) = -2.870 BETA(3) = -5.970

SECTION 4 110REITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6930	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PH1										
.000	.1342	.1752	.2415	.2165	-.3119	-.3272	-.3052		-.3047	-.2817
40.000	.1406	.2304	.4374	-.0312	-.2911	-.3192	-.2997		-.2882	-.2608
70.000	-.0983	-.1769	-.0249	.1178	.0077	.0314	-.0337			
90.000	-.0798	-.0977	.0481	.1021	-.0798	-.0093	-.0905			
105.000		.1324	.0236	-.0466	-.0640	-.1179				
110.000						-.2127				
120.000	-.0351	.0320	.3333	.0337	-.0716	-.0463	-.1039			
135.000		.3142	.1156	-.0468	-.0244	-.1376				
150.000	-.0181	.1046	.3045	.1637	.0123	-.0293	-.2448			
165.000	-.0129	.2568		.0911	-.0370	-.3157				
180.000	-.0061	.0930	.2388	.3996						

ALPHA(91) = -2.860 BETA(4) = -3.380

SECTION 4 110REITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PH1															
.000	1.2040	.9688	.1563	.1054	.2268	.0000	-.2905		-.2247	-.2131	-.1286	-.0366	.0387	.0640	
20.000		.2139	.1312	.1751	-.0896		-.3599		-.2372	-.2263	-.3502	-.1289	-.0496	.0644	.1407
40.000		.3609	.1269	.1167	-.2273		-.3002		-.2365	-.2658	-.3502	-.1289	-.0496	.0644	.1407
55.000		.4362	.2263	.1193	-.0648		-.1790		-.2658	-.2658	-.3502	-.1289	-.0496	.0644	.1407
70.000		.3033	.2622	.1211	.0078		-.1140		-.3508	-.3508	-.3502	-.1289	-.0496	.0644	.1407
90.000	.7045	.4766	.2664	.1285	.0629		-.1013		-.3149	-.3149	-.3502	-.1289	-.0496	.0644	.1407
120.000		.3070	.2951	.2205	.2384		-.1160		-.3403	-.3403	-.3502	-.1289	-.0496	.0644	.1407
140.000		.4463	.3337	.2804	.2969		-.2905		-.4382	-.4382	-.3502	-.1289	-.0496	.0644	.1407
150.000							.6073								
156.000															
162.000															
168.000															
174.000															
180.000	1.2040	.6681	.3622	.3023	.2609	.2364	.7934		-.9167	-.8629	-.2061	.0189	-.0002		
PH1															
.000	.1213	.1596	.2106	.1819	-.2936	-.3095	-.2813		-.2743	-.2720					
40.000	.1196	.2143	.3778	-.0899	-.2826	-.2900	-.2836		-.2653	-.2346					
70.000	-.0906	-.1706	-.0681	.0646	-.0393	.0039	-.0760								
90.000	-.0490	-.0955	.0055	.0364	-.0996	-.0413	-.1138								
105.000		.1068	-.0420	-.1038	-.0970	-.1343									
110.000															

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(R01031)

ARC11-716 1A14 04*712*512*23*AT10 OFE. FUSELAGE

ALPHA(3) = -2.000 BETA(4) = -3.900

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/L	.6530	.7500	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0203	.0367	.2733	-.0403	-.1226	-.0938	-.1406	-.1645		
135.000		.3854	.1029	-.1013	-.0758	-.1753				
150.000	.0136	.1133	.3261	.1613	-.0668	-.0853	-.2691			
165.000	.0134	.2720		.0104	-.0995	-.2870				
180.000	.0162	.1088	.2548	.4475						

ALPHA(3) = -2.040 BETA(5) = -1.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/L	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2520	.3010	.3790	.4790
PHI														
.000	1.2160	.3790	.1995	.1171	.2135	.0020		-.2636	-.2144	-.2281	-.1219	-.0394	.0293	.0693
20.000		.2074	.1161	.1740	-.7401			-.3211	-.2373					
40.000		.3210	.1313	.0938	-.2931			-.3022	-.2206	-.3669	-.1266	-.0447	.0361	.1251
55.000		.3970	.1758	.0896	-.1367			-.2232	-.3053					
70.000		.4360	.1935	.0694	-.0916			-.1698	-.3336	-.7915	-.1532	.0191	.0317	
90.000	.6228	.4113	.2212	.0736	.0173			-.1373	-.3961	-.7142	-.1697	.0206	.0334	
120.000		.4626	.2439	.1773	.1951			.0634	-.4006	-.6919	-.3211	.0401	.0325	
140.000		.4320	.3103	.2363	.2846				-.4716	-.7920	-.727	-.2631	.0455	.0236
150.000								.2168						
155.000								.9710						
162.000									.2946					
165.000										-.9129	-.8932	-.1627	.0334	.0162
169.000								.6824						
174.000							.6044							
180.000	1.2160	.6702	.3965	.3120	.2666	.3031	.6033		-.9651	-.9053	-.1366	.0315	.0229	

ALPHA(3) = -2.040 BETA(5) = -1.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/L	.6530	.7500	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1034	.1273	.1808	.1256	-.2817	-.2962	-.2678		-.2610	-.2627
40.000	.0984	.1751	.3079	-.1432	-.2662	-.2644	-.2690		-.2633	-.2361
50.000	-.0836	-.1843	-.1871	.0216	-.0969	-.0208	-.0867			
90.000	-.0435	-.0917	-.0226	-.0037	-.1157	-.0743	-.1240			
105.000		.0633	-.0872	-.1478	-.1237	-.1341				
110.000										
120.000	.0028	.0302	.2023	-.0877	-.1642	-.1297	-.1632			
135.000		.0297	.1243	.3418	.2036	-.1333	-.1421	-.2872		
165.000	.0290	.2962				-.0660	-.1333	-.2919		
180.000	.0342	.1853	.2603	.4708						



ARC11-716 TAILA 04+112+518E3+AT10 CR8. PUSLAGE (M81831)

ALPHA01 S1 = -2.840 BETA0 (S1) = .010

SECTION (11)CREITER PUSLAGE DEPENDENT VARIABLE CP

W/LC	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3190	.4990	.9700
PHI	.000	1.2000	.3700	.1599	.1113	.2055	.0000	-.2834	-.2209	-.2148	-.1321	-.0329	.0384	.0693	
80.000				.1875	.1103	.1801	-.8065	-.3319	-.2470						
40.000				.2887	.1005	.0640	-.3781	-.3026	-.2322	-.3655	-.1501	-.0405	.0463	.0999	
95.000				.3232	.1128	.0107	-.2058	-.2979	-.3586						
70.000				.3572	.1209	-.0014	-.1136	-.2190	-.3853	-.8250	-.1371	.0224	.0478		
90.000		.9217		.3957	.1516	.0082	-.0874	-.2177	-.4664	-.7671	-.2172	.0222	.0483		
120.000				.4088	.1919	.1265	.1433	-.3007	-.6904	-.7951	-.3685	.0360	.0273		
140.000									-.5834						
190.000				.4112	.5070	.2172	.2594	.1829	-.8603	-.9677	-.2617	.0394	.0223		
151.000								.3201							
148.000								.2543	-.9624	-.8691	-.1942	.0384	.0172		
162.000								.6440							
165.000									-.9337	-.9905	-.1449	.0384	.0273		
169.000								.8223							
174.000							.7814								
W/LC	.6330	.7900	.7810	.6230	.6620	.6250	.9630	1.0020	1.0210	1.0480					

PHI

.000	.0890	.0874	.0724	-.0886	-.3143	-.2809	-.2885	-.2322	-.2442						
40.000	.0693	.1000	.1705	-.1105	-.3249	-.2926	-.2640	-.2347	-.2313						
70.000	-.0794	-.1989	-.1795	-.0134	-.1904	-.0754	-.1308								
90.000	-.0343	-.0790	-.0536	-.0336	-.2188	-.1159	-.1691								
105.000			.7241	-.1339	-.2995	-.1917	-.1942								
110.000							-.2753								
120.000	.0128	.0433	.1285	-.2093	-.1406	-.1675	-.2178	-.2228							
135.000			.3358	.0846	-.2346	-.1967	-.2696								
190.000	.0542	.1247	.3775	.2484	-.2864	-.2081	-.3385								
185.000	.0397	.3047		-.1987	-.2265	-.3074									
170.000	.0344	.1217	.2871	.4795											

ALPHA01 S1 = -2.840 BETA0 (P1) = 2.040

SECTION (11)CREITER PUSLAGE DEPENDENT VARIABLE CP

W/LC	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3190	.4990	.9700
PHI	.000	1.2000	.9619	.1391	.1970	.1875	.0000	-.3085	-.2071	-.2196	-.1324	-.0384	.0290	.0590	
80.000				.1283	.1102	.1304	-.8341	-.3279	-.2250						
40.000				.2122	.0843	.0200	-.4429	-.2718	-.2499	-.3506	-.1451	-.0382	.0394	.0920	
95.000				.2327	.0925	-.0371	-.2812	-.3310	-.3478						
70.000				.2949	.0968	-.0478	-.1726	-.2881	-.4187	-.6824	-.1553	.0179	.0404		
90.000		.4212		.2932	.0803	-.0824	-.1316	-.2741	-.3216	-.8475	-.2878	.0291	.0418		

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(RP1231)

ALPHA(5) = -2.840 BETA(7) = 2.840

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.076	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
120.000			.3480	.1337	.0657	.0693									
140.000															
150.000			.376	.2755	.1831	.2261									
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.2090	.6430	.4053	.3172	.2632	.3082									
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
100.000	.0906	.0944	.0877	-.0579	-.3102	-.2990	-.2799								
40.000	.0659	.0643	.0749	-.1874	-.3964	-.3099	-.2637								
70.000	-.0773	-.1472	-.1320	-.0485	-.2720	-.1276	-.1543								
90.000	-.0372	-.0815	-.0824	-.0919	-.3069	-.1547	-.1854								
105.000															
110.000															
120.000	.0044	.0322	.0472	-.2893	-.4497	-.2566	-.2477								
135.000															
150.000	.0261	.1168	.3849	.2896	-.4113	-.2555	-.3698								
165.000	.0291		.3090												
180.000	.0364	.1178	.2770	.4767											

ALPHA(5) = -2.860 BETA(8) = 4.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
120.000			.1195	.0934	.1699	.0000									
20.000			.1224	.0694	.1184	-.8758									
40.000			.1447	.0248	-.0029	-.5113									
55.000			.1732	-.0029	-.0891	-.3180									
70.000			.2065	-.0068	-.1393	-.2279									
90.000	.3095	.2216	.0132	-.1310	-.1758										
120.000			.2798	.0758	-.0150	.0297									
140.000			.3594	.2367	.1463	.1834									
150.000															
151.000															
156.000															
162.000															
PHI															
120.000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															



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(R01031)

ARC11-716 1A14 01+112+S12N25+AT10 CRB. FUSELAGE

ALPHA(5) = -2.660 BETA(8) = 4.050

SECTION (1) CRITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0085 .0230 .0470 .0700 .1120 .1950 .1670 .1780 .2050 .2520 .3010 .3750 .4990 .5760

PHI 165.0000 .5712 -1.6550 -0.9707 -1.1440 -0.0095 -0.0013

169.0000 .7537 -1.0930 -0.8759 -1.1335 .0027 .0056

174.0000 1.1910 .8265 .4001 .3107 .2546 .2991

180.0000 .6530 .7300 .7810 .6230 .6820 .9230 .9630 1.0020 1.0210 1.0480

PHI .0000 .0920 .1118 .0068 -0.2679 -0.2919 -0.2886

40.0000 .0477 .0223 .0838 -0.3306 -0.4625 -0.3506 -0.2751

70.0000 -0.0640 -1.428 -1.505 -0.829 -3.286 -1.621 -1.574

90.0000 -0.0291 -0.0770 -0.0997 -0.1332 -0.3706 -0.2100 -0.1887

105.0000 -0.0316 -0.2237 -0.4152 -0.2714 -0.2074

110.0000 .0006 .0220 -0.0405 -0.3854 -0.5388 -0.3611 -0.2443 -0.2363

120.0000 .0207 .1076 .3849 .2803 -0.4564 -0.4831 -0.3487

135.0000 .0197 .0166 .1106 .2672 .4790

165.0000 .0166 .1106 .2672 .4790

180.0000 .0166 .1106 .2672 .4790

PHI .0000 .0000 .0000 .0470 .0700 .1120 .1950 .1670 .1780 .2050 .2520 .3010 .3750 .4990 .5760

PHI 1.1600 .5142 .0954 .0767 .1534 .0000

20.0000 .0833 .0338 .0957 .0957 .9236

40.0000 .0861 .0114 .0304 .6287

55.0000 .1032 .0604 .1340 .3795

70.0000 .1356 .0691 .1861 .2737

90.0000 .1967 .1530 .0539 .1944 .2316

120.0000 .2142 .0052 .0832 .0331

140.0000 .2826 .2001 .0921 .1321

151.0000 .3073 .0786

156.0000 .9253

162.0000 .5449

169.0000 .6798

174.0000 1.1600 .5832 .3760 .2879 .2329 .2750

180.0000 .6930 .7500 .7810 .8230 .6820 .9230 .9630 1.0020 1.0210 1.0480

PHI .0000 .0000 .0000 .0470 .0700 .1120 .1950 .1670 .1780 .2050 .2520 .3010 .3750 .4990 .5760

PHI 1.1600 .5142 .0954 .0767 .1534 .0000

20.0000 .0833 .0338 .0957 .0957 .9236

40.0000 .0861 .0114 .0304 .6287

55.0000 .1032 .0604 .1340 .3795

70.0000 .1356 .0691 .1861 .2737

90.0000 .1967 .1530 .0539 .1944 .2316

120.0000 .2142 .0052 .0832 .0331

140.0000 .2826 .2001 .0921 .1321

151.0000 .3073 .0786

156.0000 .9253

162.0000 .5449

169.0000 .6798

174.0000 1.1600 .5832 .3760 .2879 .2329 .2750

180.0000 .6930 .7500 .7810 .8230 .6820 .9230 .9630 1.0020 1.0210 1.0480

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ARC11-716 1A14 C3+112+S12M25+AT10 CR2. FUSELAGE (R21B31)

ALPHA(5) = -2.070 BETA(9) = 6.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0617	.0697	.1162	.0392	-.3098	-.3163	-.3053		-.2923	-.2948
40.000	.0384	.0484	.0979	-.3956	-.3356	-.3916	-.2908		-.3025	-.2970
70.000	-.0601	-.1370	-.1643	-.1032	-.3593	-.2267	-.1787			
90.000	-.0264	-.0743	-.1227	-.1612	-.3951	-.2756	-.2114			
105.000		-.0606	-.1243	-.4480	-.3267	-.2291				
110.000										-.2237
120.000	-.0022	.0152	-.1019	-.4710	-.3653	-.4169	-.2721			-.2377
135.000		.4752	-.0633	-.7295	-.5934	-.4659				
150.000	.0005	.0947	.3792	.3061	-.4979	-.5679	-.4006			
165.000	-.0034	.3019		-.3195	-.5452	-.2596				
180.000	-.0084	.0954	.2637	.4273						

ALPHA(5) = -2.870 BETA(10) = 6.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1550	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1200	.4740	.0580	.0573	.1236	.0000		-.3286	-.2637	-.3227	-.2329	-.1622	-.0694	-.0334	
20.000		.0363	.0023	.0668	-.9971			-.3561	-.3114	-.3329	-.2247	-.1622	-.0194	.0422	
40.000		.0221	-.0690	-.0627	-.7225			-.3140	-.3329	-.3268	-.2247	-.1622	-.0194		
55.000		.0331	-.1080	-.1736	-.4470			-.3289	-.3779	-.3268	-.2247	-.1622	-.0194		
70.000		.0713	-.1245	-.2293	-.3177			-.3201	-.5025	-.4103	-.4081	-.0736	.0249		
90.000	.0460	.0902	-.1158	-.2454	-.2786			-.3502	-.6713	-.5062	-.5253	-.0603	.0345		
120.000		.1509	-.0496	-.1510	-.0988			-.3176	-.7906	-.5613	-.5039	-.1360	.0003		
140.000									-.1.0760	-.9919	-.9918	-.2615	-.0980	-.0495	
150.000		.2307	.1607	.0345	.0802				-.1378						
151.000								.2433							
156.000									.0348						
162.000															
165.000															
169.000															
174.000															
180.000	1.1200	.5540	.3988	.2667	.2141	.2579	.6299	.4845	.4928						
X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.0274	.0392	.0963	.0460	-.3207	-.3321	-.3248		-.3035	-.2665					
40.000	.0289	.0393	.0955	-.4370	-.5466	-.3953	-.3171		-.3231	-.3128					
70.000	-.0497	-.1219	-.1713	-.1194	-.3740	-.2805	-.2074								
90.000	-.0314	-.0758	-.1391	-.1810	-.4332	-.3343	-.2339								
105.000			-.0751	-.2625	-.4754	-.3770	-.2367								
110.000															-.2248



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ARC11-716 1A14 01+T12+S12N25+AT10 ORB. FUSELAGE (R01031)

ALPHA(5) = -2.070 BETA(10) = 6.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0129	.0137	-.1708	-.5432	-.6385	-.4760	-.3924	-.2801		
135.000		.3728	-.1368	-.8249	-.7984	-.5478				
150.000	-.0408	.0601	.3755	.3651	-.5329	.6403	-.4857			
165.000	-.0323	.2999		-.3502	-.5844	-.2809				
180.000	-.0267	.0707	.2483	.4302						

ALPHA(5) = -2.030 BETA(11) = 10.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1560	.1670	.1760	.2090	.2520	.3010	.3790	.4990	.5760
PHI															
.0000	1.0390	.4161	.0030	.0143	.0901	.0000		-.3373		-.3592	-.3498	-.2797	-.2208	-.1275	-.0864
20.000		-.0366	-.0294	.0464	-1.1020			-.4124		-.3830					
40.000		-.0676	-.1248	-.0998	-.8716			-.3669		-.3502	-.3577	-.2727	-.1933	-.0448	.0232
55.000		-.0512	-.1657	-.2166	-.5263			-.3256		-.3813					
70.000		-.0099	-.1810	-.2761	-.3679			-.3355		-.5163	-.3962	-.4354	-.0809	.0099	
90.000	-.0537	.0084	-.1865	-.2973	-.3336			-.4238		-.6341	-.5097	-.5362	-.0927	.0099	
120.000		.0640	-.2067	-.2216	-.1745			-.4218		-.9158	-.5583	-.6039	-.1302	-.0158	
140.000										-1.1390					
160.000		.1332	.0930	-.0017	.0128			-.2308		-.1.0040	-.7265	-.3209	-.1691	-.0694	
151.000								.1722							
162.000															
165.000															
169.000															
174.000															
180.000	1.0390	.4961	.3171	.2249	.1756	.2238	.5527	.4221		-.0227	-.9550	-.8901	-.2101	-.1458	-.1110

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.0000	-.0074	.0272	.0637	.0331	-.3280	-.3270	-.3342			
40.000	.0151	.0272	.0697	-.4498	.5573	-.3839	-.3205			
70.000	-.0568	-.1228	-.1894	-.1468	-.4014	-.2911	-.2219			
90.000	-.0480	-.0991	-.1667	-.2078	-.4711	-.3480	-.2826			
105.000		-.0983	-.2874	-.5193	-.4093	-.2681				
110.000										
120.000	-.0215	.0082	-.2653	-.6362	-.7045	-.5421	-.4503			
135.000		.3224	-.2536	-.9316	-.9335	-.5151				
150.000	-.0478	.0319	.3668	.3914	-.5731	-.7277	-.5382			
165.000	-.0667	.2869		-.3939	-.6361	-.2847				
180.000	-.0907	.0346	.2204	.3877						

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.0000										
40.000										
70.000										
90.000										
105.000										
110.000										
120.000										
135.000										
150.000										
165.000										
180.000										

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ARC11-716 1A14 01+T12+S12N25+AT10 CRB. FUSELAGE (FD1931)

ALPHA(6) = -.690 BETA(1) = -10.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI	1.0990	.5255	.1289	.0645	.1694	.0000		-.3564		-.2661	-.2532	-.1547	-.1074	.0290	.0989
20.000			.2506	.1367	.1992	-.3004		-.4106		-.2447					
40.000			.5724	.2508	.1865	.0134		-.2284		-.1888	-.2363	-.1437	-.0644	.1082	.2035
55.000			.6843	.4402	.3173	.1684		.0184		-.0683					
70.000			.7521	.4871	.3450	.2322		.0779		-.0801	-.3100	-.1423	.0114	.0682	
90.000		.9354	.7019	.4933	.3200	.2533		.1031		-.1191	-.4924	-.1896	-.0037	.0598	
120.000			.6099	.3905	.3143	.3163		.2757		-.1006	-.9073	-.6284	-.1330	-.1231	
140.000				.4016	.2724	.2317	.2731			-.1465					
150.000								.3844		-.2560	-.1.0600	-.6166	-.1033	-.1125	
156.000								.6780							
162.000								.3948		-.6977	-.9657	-.3363	-.1125	-.1263	
165.000								.6547							
169.000							.7320								
174.000						.1484	.1925								
180.000	1.0990	.5688	.2353	.1666	.1484	.1925		.3227		-1.1190	-.9455	-.2750	-.1193	-.1245	
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.000	.1800	.2096	.2799	-.3326	-.3570	-.3237			-.3236	-.2969				
40.000		.2064	.3127	.4933	-.0112	-.3331	-.3474	-.3279		-.2986	-.2627				
70.000		-.1398	-.2827	.0115	.1968	.0939	.0966	-.0060							
90.000		-.1262	-.1054	.0693	.2020	.0747	.0572	-.0499							
105.000			.2071	.1603	.0361	.0017	-.0779								
110.000								-.2144							
120.000		-.2430	-.0876	.4366	.2020	.0077	.0210	-.0556							
135.000			.3707	.0390	-.0013	.0248	-.1097								
150.000		-.1963	.0191	.1766	.1223	.0659	-.2016								
165.000		-.1375	.1679	.2241	.0496	-.3234									
180.000	-.1171	.0087	.1964	.3225											

ALPHA(6) = -.690 BETA(2) = -7.960

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI	1.1490	.5626	.1901	.0790	.1946	.0000		-.3216		-.2371	-.2240	-.1447	-.0640	.0343	.1045
20.000			.2457	.1396	.1714	-.4103		-.4226		-.2276					
40.000			.4736	.2256	.1711	-.0506		-.2738		-.2018	-.3037	-.1420	-.0539	.0980	.1922
55.000			.6105	.3678	.2480	.0969		-.0342		-.1176					
70.000			.6534	.4074	.2659	.1664		.0146		-.1281	-.3636	-.1569	.0085	.0366	
90.000		.8609	.6323	.4178	.2475	.1887		.0406		-.1739	-.5771	-.2212	-.0057	.0307	



(R81031)

ARC11-71.6 1A14 01+1*2+S12N23+AT10 CRB. FUSELAGE

ALPHA (6) = -.080 BETA (2) = -7.980

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

M/L	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
120.000			.9648	.3470	.2805	.2824		.2269		-.1694	-.5597	-.6461	-.0913	-.0637	
140.000										-.2038					
150.000			.4093	.2873	.2299	.2800				-.2688	-1.0610	-.4045	-.0498	-.0694	
151.000								.6567							
156.000															
162.000															
165.000															
169.000															
174.000							.7801								
180.000	1.1490	.6016	.2729	.2132	.1807	.2270		.4224		-1.1110	-.9018	-.2641	-.0559	-.0691	
M/L	.6530	.7300	.7810	.6230	.8820	.9230	.9630	1.0720	1.0210	1.0460					

PHI

.000	.1585	.2022	.2701	.2616	-.3214	-.3293	-.3126								
40.000	.1904	.2971	.4759	-.0297	-.3073	-.3228	-.3108								
70.000	-.1545	-.2769	-.0224	.1568	.0556	.0747	-.0227								
90.000	-.1136	-.1894	.0541	.1506	.0358	.0335	-.0668								
105.000			.1712	.0950	-.0049	-.0279	-.0923								
110.000								-.2043							
120.000	-.1782	-.0990	.3824	.1389	-.0314	-.0098	-.0799	-.1683							
135.000			.4236	.0549	-.0236	-.0004	-.1233								
150.000	-.1026	.0422	.2242	.0910	.0678	.0212	-.2203								
165.000	-.0873		.2025		.1511	.0068	-.3167								
180.000	-.0725	.0422	.2210	.3334											

ALPHA (6) = -.070 BETA (3) = -5.960

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

M/L	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.1810	.9833	.1993	.0925	.2061	.0000		-.2954		-.2209	-.2253	-.1355	-.0499	.0409	.1079
20.000			.2426	.1364	.1742	-.5295		-.3503		-.2279					
40.000			.4307	.1979	.1514	-.1217		-.2691		-.2175	-.3286	-.1342	-.0522	.0861	.1796
55.000			.5444	.3065	.1905	.0394		-.0787		-.1637					
70.000			.5793	.3385	.1980	.0996		-.0310		-.1769	-.6588	-.1632	.0005	.0506	
90.000		.7796	.5995	.3377	.1781	.1904		-.0139		-.2298	-.6348	-.2242	-.0003	.0479	
120.000			.9235	.3045	.2993	.2565		.1842		-.2300	-.6054	-.6770	-.0530	-.0415	
140.000								-.2781							
150.000			.4019	.2852	.2230	.2791				-.3148	-1.0690	-.4065	.0007	-.0316	
151.000															
156.000								.6304							
162.000															

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 1A14 01+112+S12N25+AT110 ORB. FUSELAGE (R21E31)

ALPHAO (6) = -.670 BETAO (3) = -5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
165.000								.6587							
169.000															
174.000															
180.000	1.1610	.6066	.3029	.2319	.1913	.2446	.7878	.4846							
X/LB	.6570	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.1553	.1935	.2568	.2335	.3036	-.3205	-.2950								
40.000	.1712	.2729	.4321	-.0432	-.2692	-.3033	-.2860								
70.000	-.1303	-.2702	-.0628	.1086	.0137	.0466	-.0394								
90.000	-.1100	-.1698	.0164	.0924	-.0121	.0003	-.0465								
105.000		.1333	.0112	-.0307	-.0362	-.1080									
110.000															
120.000	-.1278	-.0367	.3151	.0578	-.0719	-.0434	-.1010								
135.000			.4862	.0668	-.0399	-.0318	-.1445								
150.000	-.0605	.0680	.2872	.1169	-.0014	-.0337	-.2387								
165.000	-.0472		.2266	.0769	-.0304	-.2987									
180.000	-.0345	.0680	.2331	.3600											

ALPHAO (6) = -.680 BETAO (4) = -3.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0280	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.310	.3790	.4990	.5780
PHI															
20.000	1.2030	.5936	.1567	.0969	.2119	.0000									
30.000		.2311	.1319	.1703	-.6489										
40.000		.3649	.1671	.1262	-.1971										
55.000		.4777	.2432	.1340	-.0442										
70.000		.5772	.2693	.1330	.0211										
90.000	.6941	.4813	.2688	.1195	.0735										
120.000		.4848	.2631	.1942	.2294										
140.000			.3969	.2641	.2232	.2779									
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.8030	.6159	.3290	.2553	.2108	.2631									
X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000															
20.000															
30.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000															



(R81831)

ARC11-716 1A14 Q1-T12-S12N5+AT10 CRB. FUSELAGE

ALPHA(6) = -.060 BETA(4) = -3.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7900	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.000	.1590	.1862	.2391	.1929	-.2785	-.3073	-.2766		-.2731	-.2603
40.000	.1544	.2497	.4156	-.0662	-.2785	-.2909	-.2741		-.2699	-.2464
70.000	-.1462	-.2686	-.0960	.0579	-.0401	.0101	-.0995			
90.000	-.1032	-.1820	-.0157	.0347	-.0639	-.0365	-.0994			
105.000			.0967	-.0566	-.0922	-.0828	-.1225			
110.000								-.2005		
120.000	-.0878	-.0175	.2543	-.0135	-.1011	-.0759	-.1258	-.1844		
135.000			.4864	.0710	-.0987	-.0751	-.1643			
150.000	-.0294	.0833	.2897	.1392	-.0877	-.0954	-.2525			
165.000	-.0215		.2407		-.0198	-.1088	-.2773			
180.000	-.0057	.0830	.2360	.4001						

ALPHA(6) = -.060 BETA(5) = -1.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2120	.3010	.3790	.4990	.5760
PHI															
.000	1.2170	.6036	.1640	.0988	.2061	.0070		-.2282		-.1876	-.1989	-.1219	-.0333	.0403	.0694
20.000		.2129	.1037	.1686	-.6872			-.2784		-.2035					
40.000		.3332	.1346	.1033	-.2724			-.2623		-.2150	-.3473	-.1403	-.0338	.0692	.1464
55.000		.4039	.1829	.0724	-.1065			-.1863		-.2250					
70.000		.4298	.1990	.0665	-.0385			-.1291		-.2654	-.7704	-.1699	.0054	.0384	
90.000		.6139	.3542	.1958	.0406	.0352		-.1261		-.3464	-.7234	-.2292	.0052	.0415	
120.000		.4348	.2182	.1494	.1883			.0803		-.3777	-.6879	-.3468	.0223	.0097	
140.000										-.4651					
150.000		.3819	.2712	.1946	.2378					-.7959	-1.0430	-.3406	.0555	.0114	
151.000									.2169						
156.000								.5675							
162.000									.2653						
165.000										-.9327	-.8929	-.2275	.0408	.0070	
169.008								.6484							
174.000						.7876									
180.000	1.2170	.6169	.3404	.2685	.2170	.2745		.5798		-.10640	-.9337	-.1794	.0406	.0154	

X/LB	.6530	.7900	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.000	.1272	.1506	.1973	.1415	-.2855	-.2857	-.2724		-.2804	-.2603
40.000	.1282	.2003	.3231	-.1396	-.2765	-.2686	-.2702		-.2521	-.2403
70.000	-.1368	-.2489	-.1214	.0080	-.1147	-.0167	-.0816			
90.000	-.0920	-.1694	-.0481	-.0210	-.1349	-.0633	-.1155			
105.000			.0523	-.1058	-.1622	-.1152	-.1356			
110.000										

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DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

(RB1831)

ARC11-716 1A14 01+112-SIZES+ATIO CRB. FUSELAGE

ALPHA (5) = -.660 BETA (5) = -1.580

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0531	-.0353	.1906	-.1046	-.1741	-.1172	-.1484	-.1783		
135.000			.4566	.0673	-.1669	-.1254	-.1919			
150.000	-.0049	.0982	.3099	.1364	-.1806	-.1672	-.2750			
165.000	.0006		.2326		-.1103	-.1177	-.2681			
180.000	.0036	.0871	.2459	.4470						

ALPHA (6) = -.660 BETA (6) = .010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5780
PHI															
1.2200	.6001	.1579	.1026	.2023	.0000			-.2281	-.1676	-.1838	-.1149	-.0281	.0487	.0890	
20.000		.1888	.1061	.1537	-.7457			-.2619	-.1979	-.2116	-.3455	-.1343	-.0426	.0534	.1167
40.000		.2737	.0996	.0619	-.3382			-.2692	-.2116	-.2544					
55.000		.3230	.1114	.0127	-.1786			-.2248	-.2544						
70.000		.3490	.1173	-.0033	-.0902			-.1783	-.3163	-.8035	-.1846	.0005	.0280		
90.000	.5091	.3176	.1173	-.0055	-.0335			-.1816	-.4167	-.7733	-.2232	.0109	.0315		
120.000		.3784	.1572	.0901	.1350			.0195	-.4699	-.7993	-.3628	.0400	.0150		
140.000		.3628	.2537	.1712	.2538				-.9079	-1.0010	-.3118	.0386	.0125		
150.000								.5145	-.1574						
156.000									.2416						
162.000										-.9287	-.9069	-.2105	.0374	.0063	
165.000								.6307							
169.000															
174.000															
180.000	1.2200	.6112	.3440	.2673	.2240	.2635	.6044			-.9277	-1.0200	-.1640	.0374	.0176	

X/LB .6530 .7500 .7610 .8230 .8820 .9230 .9630 1.0020 1.0210 1.0480

X/LB	.1090	.1021	.0673	-.0645	-.2984	-.2856	-.2674
PHI							
40.000	.0930	.1181	.1805	-.1196	-.3823	-.2849	-.2619
70.000	-.1398	-.2322	-.1493	-.0287	-.2567	-.0692	-.1144
90.000	-.0899	-.1511	-.0823	-.0669	-.2926	-.1063	-.1532
105.000		.0042	-.1901	-.3547	-.1490	-.1616	
110.000							-.2612
120.000	-.0293	.0034	.1144	-.1773	-.3863	-.1731	-.1971
135.000			.4969	.0492	-.3445	-.2032	-.2456
150.000	.0060	.0883	.3251	.1979	-.3381	-.2298	-.3173
165.000	.0030		.2676		-.2250	-.2604	-.2922
180.000	.0086	.0895	.2505	.4321			



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14 - VOL. 3

(RB1231)

ARC11-716 1A14 ORBITER-STEERING ORG. FUSELAGE

ALPHAO (B) = -.670 BETA (B) = 2.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2110	.5876	.1464	.0995	.1696	.0000		-.2517		-.1633	-.1875	-.1271	-.0496	.0350	.0776
20.000			.1642	.1005	.1396	-.7645		-.2735		-.1860	-.3261	-.1708	-.0498	.0471	.0984
40.000			.2149	.0828	.0302	-.4195		-.2608		-.2770					
55.000			.2472	.0486	-.0441	-.2399		-.2623		-.3499	-.6324	-.1792	.6033	.0286	
70.000			.2696	.0488	-.0664	-.1335		-.2187		-.4794	-.8191	-.2522	.0219	.0316	
90.000		.6005	.2450	.0689	-.0704	-.1103		-.2298		-.5552	-.6057	-.3616	.0372	.0161	
120.000			.3196	.1070	.0403	.0695		-.0455		-.7066					
140.000			.3341	.2330	.1475	.2053			.0933	-.9576	-1.0060	-.2641	.0363	.0095	
150.000								.4540							
131.000									.1885	-.9242	-.9345	-.2216	.0360	.0040	
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.2110	.5850	.3592	.2770	.2244	.2796	.7556	.9979		-1.0580	-.9076	-.2093	.0360	.0158	
W/LB	.6530	.7300	.7610	.6230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.000	.1131	.1015	-.0469	-.3077	-.2863	-.2624
.000							
40.000	.0968	.0907	-.1783	-.3685	-.3039	-.2557	
70.000	-.1281	-.2176	-.0395	-.3367	-.1470	-.1475	
90.000	-.0793	-.1317	-.1028	-.3746	-.1824	-.1680	
105.000		-.0255	-.1934	-.4232	-.2131	-.2021	
110.000							-.2685
120.000	-.0228	.0033	.0314	-.2655	-.4773	-.2458	-.2229
135.000			.5120	.0411	-.9537	-.3664	-.2696
150.000	.0045	.0961	.3544	.2337	-.4366	-.3875	-.3434
165.000	.0047		.2778		-.2616	-.4315	-.2633
180.000	.0033	.0879	.2461	.4711			

ALPHAO (B) = -.680 BETA (B) = 4.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1930	.9637	.1236	.0862	.1669	.0000		-.2361		-.1908	-.2249	-.1622	-.0727	.0162	.0612
20.000			.1274	.0821	.1177	-.6326		-.2802		-.2153					
40.000			.1908	.0214	-.0039	-.4971		-.2313		-.2324	-.3251	-.1905	-.0567	.0392	.0869
55.000			.1728	-.0123	-.0961	-.3095		-.2771		-.3020					
70.000			.1991	-.0145	-.1295	-.2126		-.2370		-.3948	-.6631	-.2106	-.0014	.0185	
90.000		.2972	.1981	.0027	-.1367	-.1632		-.2811		-.5349	-.6293	-.3703	.0270	.0301	

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 1A14 0A712-S12M25-A110 CRB. PUSBLAGE (R01831)

ALPHA(8) = -.000 BETA(8) = 4.030

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
120.000		.2603	.0324	-.0257	.0310			-.1134		-.6333	-.0680	-.4410	.0161	.0106	
140.000									-.8917						
150.000		.2960	.1969	.1126	.1069					-.9933	-1.0220	-.2322	.0163	.0000	
151.000								.3874							
156.000									.1342						
162.000										-.9239	-1.0060	-.2177	.0163	-.0074	
165.000								.5633							
169.000						.7266									
174.000															
190.000	1.1930	.5763	.3315	.2727	.2135	.2702		.5761		-1.1030	-.9005	-.2025	.0271	.0001	
W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000		.1039	.1236	.1319	.0200	-.2641	-.2790	-.2813		-.2761	-.2478				
40.000		.0760	.0732	-.1072	-.3130	-.4673	-.3312	-.2654		-.2726	-.2625				
70.000		-.1116	-.1875	-.1735	-.0490	-.3721	-.2117	-.1576							
90.000		-.0666	-.1209	-.1217	-.1356	-.4157	-.2621	-.1644							
105.000			-.0436	-.2280	-.4634	-.2967	-.1976								
110.000								-.2204							
120.000	-.0197	.0005	-.0199	-.3579	-.5473	-.4132	-.2155	-.2118							
135.000			.4812	.0117	-.6396	-.4377	-.2699								
150.000	-.0224	.0060	.3547	.2392	-.4739	-.4910	-.3421								
165.000	-.0039		.2737		-.3093	-.4900	-.2190								
180.000	-.0082	.0826	.2425	.4436											

ALPHA(8) = -.000 BETA(8) = 6.060

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000		1.1370	.5412	.1012	.0705	.1420	.0000		-.2896	-.2419	-.2331	-.1772	-.1012	-.0091	.0290
20.000			.0692	.0245	.0666	-.8838		-.2872		-.2493					
40.000			.0436	-.0221	-.0354	-.5648		-.2617		-.2734	-.3333	-.1913	-.0977	.0133	.0731
55.000			.7332	-.0888	-.1475	-.3769		-.2670		-.3262					
70.000			.1218	-.0630	-.1904	-.2689		-.2921		-.4333	-.6972	-.3172	-.0280	.0163	
90.000		.1750	.1248	-.0680	-.2004	-.2207		-.3241		-.5843	-.4894	-.4706	-.0046	.0264	
120.000			.1818	-.0137	-.1006	-.0317		-.1890		-.7244	-.6277	-.9007	-.0226	.0131	
140.000										-.1.0020					
160.000			.2394	.1553	.0536	.1103				-.1.0230	-1.0330	-.3060	-.0609	-.0163	
191.000															
196.000								.3071							
162.000															



ARC11-716 1A14 ORBITER PUSLAGE (RB1231)

ALPHA(X) = -.000 BETA(Y) = 0.000

SECTION (1) ORBITER PUSLAGE	DEPENDENT VARIABLE CP
K/L	.0000 .0000 .0470 .0700 .1120 .1990 .1670 .1780 .2030 .2320 .3010 .3790 .4990 .5780
PHI	
165.000	
169.000	.5133
174.000	.0668
180.000	1.1970 .2896 .2834 .2360 .1870 .2413
K/L	.6530 .7300 .7810 .6230 .6620 .5230 .9430 1.0020 1.0210 1.0480
PHI	
.0000	.0468 .1026 .1339 .0960 -.2919 -.3119 -.2944
40.000	.0470 .0403 .1126 .3690 -.5191 -.3653 -.2629
70.000	-.1020 .-1019 .-1190 .-1190 .-3904 .-2366 .-1682
90.000	-.0440 .-1087 .-1432 .-1696 .-4313 .-2646 .-2087
105.000	-.0719 .-2403 .-4670 .-3424 .-2269
110.000	
120.000	-.0238 .-3034 .-0714 .-4336 .-3914 .-4323 .-2644
135.000	.4366 .-0540 .-7163 .-3632 .-4666
150.000	-.0144 .0764 .3423 .2793 .-5136 .-3664 .-3420
165.000	-.0223 .2889
180.000	-.0310 .0710 .2367 .3933

SECTION (1) ORBITER PUSLAGE	DEPENDENT VARIABLE CP
K/L	.0000 .0000 .0230 .0470 .0700 .1120 .1990 .1670 .1780 .2030 .2320 .3010 .3790 .4990 .5780
PHI	
.0000	-.2663 -.3015 -.2226 -.1307 -.0566 -.0179
20.000	-.2836
40.000	-.3162 .-3340 .-2296 .-1499 .-0133 .0570
55.000	-.3457
70.000	-.4719 .-4736 .-3304 .-0346 .0040
90.000	-.6237 .-3042 .-5113 .-0361 .0196
120.000	-.7978 .-3380 .-5166 .-0743 .-0012
140.000	-1.0610
150.000	-1.0390
151.000	
154.000	
162.000	
163.000	
169.000	
174.000	
180.000	1.1230 .-8393 .-3104 .-0731 .-0630
K/L	.6530 .7300 .7810 .6230 .6620 .5230 .9430 1.0020 1.0210 1.0480

ALPHA(X) = -.000 BETA(Y) = 0.000

SECTION (1) ORBITER PUSLAGE	DEPENDENT VARIABLE CP
K/L	.0000 .0000 .0230 .0470 .0700 .1120 .1990 .1670 .1780 .2030 .2320 .3010 .3790 .4990 .5780
PHI	
.0000	1.1140 .4915 .0334 .0337 .1051 .0000
20.000	.0216 .-0207 .0511 .-9704
40.000	-.0017 .-0696 .-0648 .-7130
55.000	.0117 .-1320 .-2063 .-4324
70.000	.0449 .-1492 .-2633 .-3237
90.000	.0336 .0392 .-1355 .-2682 .-2420
120.000	.1166 .-0824 .-1798 .-1046
140.000	.1633 .1137 .0076 .0345
150.000	
151.000	
154.000	
162.000	
163.000	
169.000	
174.000	
180.000	1.1230 .-8393 .-3104 .-0731 .-0630
K/L	.6530 .7300 .7810 .6230 .6620 .5230 .9430 1.0020 1.0210 1.0480

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TABULATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 CR-T12-S12W-S-A110 CRB. FUSelage

ALPHA(8) = -.000 BETA(10) = 0.000

SECTION (11) CRITTER FUSelage DEPENDENT VARIABLE CP

W/L	.6530	.7300	.7810	.8230	.8620	.9230	.9730	1.0020	1.0210	1.0400
PMI										
.000	.0328	.0737	.1096	.0999	-.3102	-.3100	-.3105			
40.000	.0283	.0646	.1148	-.4129	-.5441	-.3799	-.3080			
70.000	-.0940	-.1728	-.1993	-.1483	-.3873	-.2786	-.1997			
90.000	-.0407	-.1119	-.1701	-.2087	-.4599	-.3185	-.2322			
103.000			-.0938	-.2099	-.3083	-.3634	-.2269			
110.000										-.2175
120.000	-.0312	-.0114	-.1372	-.5300	-.6301	-.4942	-.3512			-.2355
135.000			-.3104	-.1273	-.8272	-.7776	-.5480			
150.000	-.0354	.0628	.3290	.3387	-.5397	-.6831	-.4754			
165.000	-.0493		.2703		-.3806	-.6167	-.2742			
180.000	-.0750	.0406	.2233	.3901						

ALPHA(8) = -.000 BETA(11) = 13.120

SECTION (11) CRITTER FUSelage DEPENDENT VARIABLE CP

W/L	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5780
PMI															
.000	1.0630	.4439	.0023	.0019	.0708	.0000									
20.000		-.0394	-.0708	.0236	-1.0740										
40.000		-.0783	-.1416	-.1224	-.8789										
55.000		-.0372	-.1886	-.2354	-.5408										
70.000		-.0213	-.2031	-.2996	-.3780										
90.000		-.0726	-.0020	-.2028	-.3113	-.3282									
120.000			.0464	-.2126	-.2389	-.1601									
140.000			.0640	.0631	-.0297	-.0269									
151.000															
162.000															
165.000															
189.000															
174.000															
180.000	1.0630	.4472	.2706	.1799	.1377	.1916									

W/L	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400
PMI										
.000	.0163	.0443	.0863	.0423	-.3231	-.3167	-.3260			
40.000	.0443	.0376	.0903	-.4471	-.5378	-.3810	-.3203			
70.000	-.0861	-.1809	-.2063	-.1992	-.4137	-.3008	-.2224			
90.000	-.0641	-.1120	-.1748	-.2178	-.4740	-.3583	-.2660			
103.000			-.1037	-.2933	-.5308	-.4079	-.2782			
110.000										-.2240



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ARC111-716 1A14 C1-712-S12MS-AT10 CRB. PURLAGE (R01031)

ALPHAX M = -.000 BETA0 (11) = 10.120

SECTION (1) ORBITER PURLAGE DEPOSIT VARIABLE CP

W/LB	.6530	.7500	.7810	.8230	.8400	.9230	.9630	1.0020	1.0210	1.0480
PH1										
120.000	-.0396	-.0104	-.2291	-.6117	-.7025	-.5592	-.4001	-.2834		
135.000		.2761	-.2211	-.9302	-.9249	-.4794				
150.000	-.0204	.0151	.3277	.3806	-.9821	-.7413	-.5248			
165.000	-.0856	.2879		-.4109	-.6312	-.2756				
180.000	-.1090	.0146	.2032	.3900						

ALPHAX N = 2.040 BETA0 (11) = -10.000

SECTION (1) ORBITER PURLAGE DEPOSIT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.2030	.2320	.3010	.3790	.4990	.5760
PH1														
.000	1.0000	.9421	.1366	.0334	.1677	.0000		-.3190	-.2368	-.2274	-.1421	-.0937	.0461	.1298
20.000		.2723	.1326	.1546	-.2937		-.4008		-.2067					
40.000		.5399	.2884	.1894	.0246		-.2087		-.1984	-.1932	-.1212	-.0409	.1321	.2384
60.000		.6944	.4433	.3162	.1764		.0434		-.0377					
80.000		.7260	.4837	.3322	.2291		.0921		-.0551	-.2990	-.1470	-.0047	.0602	
100.000		.9182	.6774	.4799	.3004	.2426	.1123		-.0985	-.4343	-.2086	-.0268	.0410	
120.000		.9537	.5168	.2664	.2813		.2664		-.1124	-.3155	-.6359	-.1961	-.2031	
140.000		.3066	.2083	.1609	.9278				-.2758	-.1096	-.6113	-.1116	-.1408	
160.000							.3699							
180.000							.6815							
196.000									.3776					
182.000										-.7030	-1.0100	-.4360	-.1066	-.1366
165.000														
148.000														
174.000														
140.000	1.0000	.9083	.1696	.1060	.0936	.1467		.7076						
160.000		.6930	.7900	.7810	.6230	.6670	.9230	.9630	1.0020	1.0210	1.0480			
PH1														
.000	.7502	.2096	.2970	.2691	-.3216	-.3375	-.3146							
40.000	.2487	.3422	.5095	.0117	-.3808	-.3390	-.3161							
60.000	-.1943	-.4991	-.0318	.1667	.0961	-.0019								
80.000	-.1717	-.3799	.0003	.1966	.0706	.0375	-.0432							
105.000			.1654	.1807	.0301	-.0074	-.0719							
110.000														
120.000	-.3480	-.2216	.4260	.2110	-.0036	.0092	-.0426							
135.000			.3021	-.0291	-.0370	.0013	-.1278							
150.000	-.2170	-.0284	.1390	.0123	.1162	.0327	-.2032							
165.000	-.1841		.1464		.1126	.0371	-.3144							
180.000	-.1468	-.0072	.1782	.2313										

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(R51831)

ARC11-716 1A14 01+112+SIZE3+AT10 CRB. FUSELAGE

ALPHA (θ) = 1.960 BETA (β) = -5.960

SECTION (1) CRIBTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI	1.1690	.6213	.1725	.0630	.1976	.0000		-.2670	-.1915	-.1936	-.1249	-.0377	-.0593	.1276	
20.000			.2662	.1367	.1660	.5349		-.3280	-.1891		-.2663	-.1254	-.0377	.1118	.2057
40.000			.4607	.2141	.1544	.1209		-.2408	-.1160						
55.000			.5600	.3200	.1954	.0332		-.0576	-.1410	-.6026	-.1917	-.0254	-.1.32		
70.000			.5794	.3377	.1912	.1025		-.0136	-.1966	-.6110	-.2497	-.0342	.0327		
90.000		.7620	.5435	.331	.1807	.1281		.0039	-.2231	-.5999	-.6924	-.1343	-.1706		
120.000			.4753	.2542	.1959	.2229		.1890	-.3068						
140.000			.3297	.2180	.1605	.2348		.2941	-.3567	-.1.0930	-.4931	-.0138	-.0309		
151.000								.6240							
156.000								.3268	-.9507	-.1.0190	-.4702	.0027	-.0479		
162.000								.6422							
169.000						.7565		.4549	-.1.1200	-.9384	-.3820	.0177	-.0298		
174.000	1.1690	.5375	.2265	.1710	.1331	.1978									
180.000	.6530	.7900	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.1811	.2139	.2682	.2419	-.2937	-.3039	-.2676		-.2756	-.2622					
40.000	.2087	.2953	.4592	-.0384	-.2764	-.2925	-.2319		-.2666	-.2540					
70.000	-.2014	-.4299	-.1011	.1063	.0209	.0473	-.0392								
90.000	-.1648	-.5360	-.0164	.0915	-.0080	.0046	-.0822								
105.000			.1116	-.0048	-.0466	-.0568	-.1050								
110.000								-.1921							
120.000	-.2230	-.1563	.2547	.0672	-.0715	-.0442	-.1023	-.1704							
135.000			.4120	.0281	-.0790	-.7449	-.1530								
150.000	-.1143	.0155	.2221	.0600	-.0182	-.0384	-.2333								
165.000	-.0872		.1914		.0597	-.0628	-.2987								
180.000	-.0643	.0372	.1956	.2872											

ALPHA (θ) = 1.970 BETA (β) = -3.980

SECTION (1) CRIBTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI	1.1990	.6358	.1759	.0935	.1947	.0000		-.2742	-.1666	-.1696	-.1125	-.0499	.0672	.1281	
20.000			.2477	.1329	.1622	-.6837		-.3275	-.1780		-.2666	-.1254	-.0368	.0996	.1946
40.000			.4067	.1777	.1248	-.2121		-.2538	-.1840	-.3018	-.1232	-.0368	.0996		
55.000			.4837	.2450	.1233	-.0438		-.1627	-.1627	-.6026	-.1917	-.0254	-.1.32		
70.000			.5035	.2593	.1208	.0341		-.0719	-.1929	-.6702	-.2497	-.0342	.0327		
90.000		.6798	.4750	.2612	.0862	.0619		-.0572	-.2231	-.5999	-.6924	-.1343	-.1706		

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ARC11-7.6 IA1A 01+112+SIENES+AT110 CRB. FUSLLAUE (RB1031)

ALPHAO (7) = 1.970 BETAO (3) = -3.980

SECTION (1) CRBITER FUSELAGE DEPENDENT VARIABLE CP

X/L3	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.5780
PHI															
120.000			.4364	.2176	.1902	.1922	.1375			-.2693	-.6442	+.5081	-.0641	-.0478	
140.000										-.3612					
150.000			.3328	.2166	.1556	.2294				-.4959	-1.0940	-.4704	.0019	-.0183	
151.000							.5922	.2909							
156.000								.3010		-.9320	-.9322	-.4331	.0247	-.0129	
162.000															
169.000								.6406							
174.000							.7647								
180.000	1.1990	.5904	.2568	.1920	.1563	.2195		.5183		-1.1020	-.9352	-.3549	.0232	-.0001	
X/L3	.6530	.7900	.7810	.8230	.8820	.9230	.9630	1.0210	1.0480						

ALPHAO (7) = 1.960 BETAO (4) = -1.990

SECTION (1) CRBITER FUSELAGE DEPENDENT VARIABLE CP

X/L3	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.5780
PHI															
20.000			.1783	.2018	.2541	.2083	-.2791	-.2923	-.2752						
40.000			.1884	.2667	.4239	-.0635	-.2702	-.2774	-.2717						
70.000			-.1972	-.4134	-.1436	.0393	.0282	.0168	-.0535						
90.000			-.1539	-.3169	-.0622	.0199	-.0642	-.0349	-.0961						
105.00					.0605	-.0904	-.0941	-.0914	-.1175						
117									-.1887						
127			-.1584	-.1103	.1922	-.0187	-.0866	-.0814	-.1265						
133					.4334	.0207	-.0923	-.0844	-.1762						
151			.0719	.0340	.2457	.0657	-.1038	-.1038	-.2534						
165			-.0562	.2061		-.0485	-.1250	-.2623							
180.000	-.0443	.0443	.1949	.3654											

ALPHAO (7) = 1.960 BETAO (4) = -1.990

SECTION (1) CRBITER FUSELAGE DEPENDENT VARIABLE CP

X/L3	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.5780
PHI															
20.000			.1784	.1005	.1896	.0000									
40.000			.2337	.1219	.1557	-.6904									
55.000			.3922	.1361	.0998	-.2911									
70.000			.4075	.1797	.0651	-.1223									
90.000			.4223	.1849	.0465	-.0465									
120.000	.5637	.4020	.1762	.0245	-.0005										
140.000			.3671	.1747	.1042	.1542									
150.000			.3189	.2111	.1445	.2143									
151.000															
156.000															
162.000															

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ARC11-716 1A14 01+T12+S12M3+AT10 CRB. FUSELAGE (RB1231)

ALPHA (7) = 1.960 BETA (4) = -1.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4600	.5760
PHI															
165.000															
169.000															
174.000															
180.000	1.2050	.5443	.2758	.1992	.1606	.2306	.7566	.5562	-1.1100	-9.843	-2.374	.0334	.0053		
X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.1504	.1707	.2088	.1464	-2.756	-2.852	-2.602		-2.532	-2.472					
40.000	.1566	.2227	.3403	-1.354	-2.800	-2.622	-2.557		-2.559	-2.320					
70.000	-1.991	-3.363	-1.800	-0.111	-1.054	-0.147	-0.0672								
90.000	-1.491	-2.732	-0.985	-0.408	-1.536	-0.614	-1.084								
103.000		.0187	-1.347	-1.683	-1.079	-1.341									
110.000															
120.000	-1.146	-0.689	.1352	-0.933	-1.388	-1.046	-1.473		-1.873						
135.000		.4081	.0394	-1.511	-1.181	-1.928			-1.715						
150.000	-0.499	.0439	.2601	.1177	-2.010	-1.651	-2.554								
165.000	-0.0378	.2041		-1.518	-1.893	-2.577									
180.000	-0.0277	.0499	.1966	.4427											

ALPHA (7) = 1.960 BETA (5) = .060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2110	.6562	.1694	.1016	.1640	.0000									
20.000		.2093	.1040	-1.423	-7.475										
40.000		.2930	.1028	.0623	-3.603										
55.000		.3279	.1090	.0022	-2.014										
70.000		.3417	.1112	-0.170	-1.180										
90.000		.4630	.3012	.1021	-0.472	-0.616									
120.000		.3358	.1169	.0323	.1129										
140.000															
150.000		.3032	.1907	.1180	.1955										
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.2110	.5363	.2750	.2072	.1444	.2375	.7407	.5603	-9.702	-9.515	-2.653	.0393	.0047		
X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					



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ARC11-716 1A14 01-T12-S12E9-AT110 CRB. FUSELAGE (R01831)

ALPHA(7) = 1.980 BETA(5) = .060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7810	.8230	.8820	.9250	.9630	1.0020	1.0210	1.0480
PHI	.000	.1333	.1262	.1053	-.0654	-.2938	-.2671	-.2661	-.2298	-.2246
40.000	.1224	.1448	.1907	-.1220	-.3208	-.2893	-.2604		-.2361	-.2309
70.000	-.1934	-.3400	-.1986	-.0445	-.2699	-.0708	-.1010			
90.000	-.1428	-.2436	-.1230	-.0655	-.3545	-.0975	-.1451			
105.000		-.0243	-.1703	-.4399	-.1282	-.1623				
110.000										-.2995
120.000	-.0853	-.0496	.7865	-.1712	-.4810	-.1379	-.1797			-.2299
135.000			.4492	.0335	-.4230	-.1457	-.2283			
150.000	-.0352	.0477	.2664	.5407	-.3931	-.2427	-.3036			
165.000	-.0261	.2171		-.2586	-.2803	-.2388				
180.000	-.0227	.0477	.1977	.4009						

ALPHA(7) = 1.970 BETA(6) = 2.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.2030	.8236	.1636	.1053	.1811	.0000	-.2674	-.1285	-.1428	-.0884	-.0347	.0527	.0972	
20.000			.1841	.1031	.1325	-.7789		-.2789	-.1567						
40.000			.2315	.0694	.0731	-.4319		-.2547	-.1935	-.2797	-.1460	-.0434	.0602	.1204	
55.000			.2496	.0474	-.0512	-.2694		-.2590	-.2546						
70.000			.2661	.0430	-.0789	-.1818		-.2109	-.3235	-.7954	-.1821	-.0187	.0085		
90.000		.3600	.2187	.0329	-.1128	-.1128		-.2166	-.4430	-.8215	-.2309	-.0021	.0228		
120.000			.2817	.0454	.0082	.0670		-.0352	-.5451	-.7939	-.3957	.0305	.0102		
140.000									-.6903						
160.000			.2817	.1821	.1022	.1677		.0830	-.9989	-.1.0480	-.4022	.0461	.0100		
180.000								.4460							
PHI									.1682	-.9738	-.9810	-.2925	.0340	.0033	
40.000															
70.000															
90.000															
105.000															
110.000															
PHI															
40.000		.1347	.1399	.1280	-.0328	-.2379	-.2897	-.2539	-.2176	-.2118					
70.000		.1162	.1142	-.1142	-.1616	-.3557	-.3019	-.2477	-.2096	-.2173					
90.000		-.1871	-.2960	-.2114	-.0745	-.3377	-.1256	-.1293							
105.000		-.1328	-.2011	-.1427	-.1202	-.4133	-.1572	-.1615							
110.000				-.0557	-.2075	-.4628	-.1931	-.1861							-.2569

ORIGINAL PAGE IS OF POOR QUALITY

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ARC11-716 1A14 01+712+S12N25+AT10 CRB. FUSELAGE

(R81B31)

ALPHA (γ) = 1.970 BETA (δ) = 2.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LE	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0626	-.0444	.0375	-.2502	-.4937	-.2399	-.2019	-.2290		
135.000			.4739	-.0126	-.5109	-.3455	-.2549			
150.000	-.0241	.0544	.2961	.1805	-.4765	-.5971	-.3165			
165.000	-.0229		.2264		-.3087	-.4529	-.2480			
180.000	-.0236	.0549	.1981	.4421						

ALPHA (γ) = 2.030 BETA (δ) = 4.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE C_p

X/LE	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.1850	.9963	.1426	.0632	.1957	.0000		-.2699		-.1554	-.1822	-.1406	-.0384	.0337	.0793
20.000			.1390	.0995	.1129	-.8257		-.2729		-.1864					
40.000			.1535	.0227	-.0042	-.5128		-.2491		-.2072	-.2966	-.1924	-.0367	.0573	.1053
55.000			.1701	-.0172	-.1103	-.3349		-.2711		-.2736					
70.000			.1884	-.0286	-.1423	-.2342		-.2510		-.3608	-.8290	-.1687	-.0168	.0103	
90.000	.2706		.1449	-.0278	-.1507	-.1769		-.2639		-.4937	-.8600	-.2503	.0066	.0226	
120.000			.2241	.0237	-.0462	.0162		-.0565		-.5195	-.8545	-.3809	.0164	.0130	
140.000			.2446	.1442	.0587	.1339			.0150	-.1030	-.1056	-.4058	.0322	.0051	
150.000								.3793							
156.000									.1150	-.9697	-.10190	-.3390	.0229	-.0067	
162.000															
165.000								.5435							
174.000															
183.000	1.1850	.9026	.2844	.2045	.1514	.2254									
X/LE	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.1312	.1311	.1496	.0382	-.2773	-.2615	-.2720								
40.000	.1072	.1061	.1274	-.2892	-.4628	-.3482	-.2536			-.2579	-.2492				
70.000	-.1744	-.2635	-.2235	-.1143	.3946	-.2100	-.1529			-.2580	-.2756				
90.000	-.1224	-.1822	-.1571	-.1580	-.4389	-.2296	-.1787								
105.000			-.0846	-.2368	-.4609	-.3140	-.1904								
117.000															
120.000	-.0584	-.0357	.0027	-.3420	-.5279	-.4409	-.2033								
135.000			.4214	-.0079	-.6295	-.4817	-.2401								
150.000	-.0290	.0237	.3004	.1668	-.4933	-.5043	-.3286								
165.000	-.0295		.2199		-.3424	-.5073	-.2172								
180.000	-.0407	.0456	.1936	.3942											



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ARC11-716 1A14 01+712+512M25+AT10 ORB. FUSELAGE (R81D31)

ALPHA(7) = 2.090 BETA(8) = 6.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LP	.0000	.0060	.0290	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.1480	.5703	.1092	.0557	.1241	.0000	-.2461	-.2227	-.2185	-.2239	-.1762	-.0991	-.0046	.0441
20.000				.0943	.0253	.0724	-.8810	-.2635	-.2578	-.2570	-.3198	-.2100	-.0849	.0231	.0911
40.000				.0815	-.0309	-.0454	-.5761	-.2916	-.2961	-.3920	-.8460	-.2063	-.0368	-.0066	
55.000				.0849	-.0800	-.1645	-.3958	-.2710	-.2954	-.5470	-.7902	-.3388	.0001	.0129	
70.000				.1032	-.0950	-.2035	-.2809	-.1707	-.10020	-.7043	-.1709	-.3645	-.0276	.0038	
90.000		.1445		.0641	-.0913	-.2125	-.2227		-.10700	-.7439	-.4774	-.0148	-.0140		
120.000				.1332	-.0427	-.1265	-.0390								
140.000				.1876	.0964	.0077	.0787		-.0696						
150.000								.3005	.0494						
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000		1.1480	.4815	.2569	.1769	.1283	.1995	.4997		-1.1470	-.7345	-.4273	-.0430	-.0257	
X/LP	.6530	.7900	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

ORIGINAL PAGE IS OF POOR QUALITY

ALPHA(7) = 2.040 BETA(8) = 6.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LP	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.1010	.5132	.0471	.0142	.0691	.0000	-.2860	-.2915	-.2997	-.2801	-.2154	-.1460	-.0459	-.001
20.000				.0202	-.0233	.0148	-.9440	-.2915	-.2915	-.3005	-.3462	-.2261	-.1302	-.0042	.0673
40.000				-.0131	-.1104	-.1135	-.6714	-.2920	-.2920	-.3085	-.3193				
55.000				-.0044	-.1576	-.2241	-.4558	-.3085	-.3085	-.4306	-.6580	-.2643	-.0559	-.0121	
70.000				.0241	-.1707	-.2668	-.3240	-.2960	-.2960	-.5921	-.9262	-.4324	-.0244	.0057	
90.000		.0099		.0117	-.1579	-.2876	-.2747	-.3322							

ARC11-716 1A14 04-T12+SIENE5+AT10 ORB. FUSELAGE (RE1831)

ALPHA(7) = 2.040 BETA(9) = 6.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PMT															
127.000	.0816	-.1205	-.2048	-.1086											
140.000															
150.000	.1319	.0827	-.0375	.0276											
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.1010	.4196	.2347	.1497	.0977	.1770	.5785	.4502							
X/LB	.6530	.7500	.7810	.6230	.6920	.9230	.9630	1.0020	1.0210	1.0480					

127.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000															

ALPHA(7) = 2.020 BETA(10) = 10.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PMT															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
150.000															
165.000															
180.000															

20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
150.000															
165.000															
180.000															



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ARC11-716 IA14 OL+112+SI2R2+ATT10 CRP. FUSELAGE (RB1831)

ALPHA(7) = 2.020 BETA(10) = 10.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2520	.3010	.790	.4990	.3760
PHI															
165.000								.3902							
169.000															
174.000								.3418							
180.000	1.0400	.3647	.1929	.1106	.0636	.1999	.5086								
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0315	.0966	.0943	.0522	-.3211	-.3128	-.3130								
40.000	.0629	.0741	.1073	-.4301	-.5317	-.5722	-.5048								
70.000	-.1336	-.2037	-.2340	-.1816	-.4082	-.2922	-.2121								
90.000	-.0981	-.1429	-.1976	-.2330	-.4623	-.3569	-.2439								
105.000															
110.000															
120.000	-.0685	-.0401	-.1436	-.5243	-.6838	-.5336	-.3393	-.2427							
135.000															
150.000	-.0782	.0371	.2335	.3273	-.6132	-.7602	-.4890								
165.000	-.1100	.2194		-.4390	-.6921	-.2673									
180.000	-.1304	-.0096	.1736	.2631											

-1.0110 .9690 -.3452 -.0998 -.1028

.3902

-.1190 -.9539 -.3599 -.1001 -.1207

-.2914 -.2623

-.3237 -.3208

-.2182

-.2427

ALPHA(8) = 4.110 BETA(1) = -10.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.0770	.5554	.1497	.0436	.1502	.0000									
20.000															
40.000															
55.000															
7.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0770	.4529	.1071	.0503	.0479	.1141									
X/LB	.6930	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000															
20.000															
40.000															
55.000															
7.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0770	.4529	.1071	.0503	.0479	.1141									
X/LB	.6930	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

-.2184 -.2090 -.1347 -.0857 .0312 .1266

-.1747

-.1190 -.1337 -.0466 -.0320 .1420 .2499

-.0122

-.0428 -.2072 -.1369 -.0320 .0448

-.0919 -.2842 -.2049 -.0376 .0196

-.1222 -.5286 -.6664 -.3220 -.2752

-.1885

-.2965 -.7976 -.5379 -.2705 -.1624

.3499

.6434

.3460

-.8004 -1.0900 -.4512 -.1112 -.1310

-.8813 -.6832 -.4075 -.0318 -.1264

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ARC11-716 1A14 01+T12+S12M2+RATIO CRG. FUSELAGE (RE1531)

ALPHAO (8) = 4.110 BETAO (1) = -10.000

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP									
X/L	PHI	.6530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
.000	.1898	.2255	.2856	.2715	-.3063	-.3359	-.2970			-.2576	-.2865
40.000	.2982	.3367	.4931	-.0016	-.3098	-.3158	-.3114			-.2833	-.2724
70.000	-.2305	-.5156	-.0303	.1796	.0750	.0669	-.0179				
90.000	-.2102	-.4480	.0535	.1939	.0515	.0270	-.0557				
105.000		.1770	.1624	.0028	-.0366	-.0864					
110.000							-.1895				
120.000	-.4342	-.3439	.3492	.2104	-.0390	-.0191	-.0724			-.1504	
135.000		.2772	-.0876	-.0783	-.0278	-.1472					
150.000	-.2592	-.0498	.1022	-.0375	.0654	.0340	-.2088				
165.000	-.1855		.1113	.1984	.0217	-.2937					
180.000	-.1412	-.0076	.1507	.1535							

ALPHAO (8) = 4.130 BETAO (2) = -7.960

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/L	PHI	.0000	.0080	.0330	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
.000	1.1260	.6211	.1729	.0751	.1732	.0000			-.3126	-.1912	-.1848	-.1165	-.0324	.0596	.1267	
20.000		.2871	.1442	.1571	-.4092				-.3158	-.1636						
40.000		.3219	.2540	.1799	-.0430				-.2228	-.1376	-.1809	-.0953	-.0303	.1326	.2307	
55.000		.6423	.3902	.2529	.0565				-.0031	-.0349						
70.000		.6496	.4024	.2427	.1456				.0365	-.0590	-.4333	-.1663	-.0365	.0293		
90.000		.6207	.3649	.3848	.2013	.1661			.0527	-.1426	-.5272	-.2363	-.0641	.0185		
120.000			-.704	.2264	.1791	.2056			.2131	-.1786	-.5782	-.6950	-.2684	-.2164		
140.000										-.2734						
150.000		.2748	.1777	.1128	.1884					-.3603	-.10030	-.4869	-.1866	-.1022		
151.000									.6317							
162.000										.317						
169.000											-.9720	-.8129	-.4936	-.1360	-.0806	
174.000																
180.000	1.1260	.4768	.1548	.0878	.1421		.7093				-.10860	-.6618	-.5115	-.1643	-.0842	
X/L	PHI	.6530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
.000	.1909	.2137	.2719	.2567	-.2898	-.3174	-.2849			-.2794	-.2712					
40.000	.2373	.2002	.4711	-.0327	-.2905	-.3021	-.2795			-.2785	-.2660					
70.000	-.2319	-.5050	-.0778	.1421	.0443	.0470	-.0308									
90.000	-.2079	-.4342	.0060	.1426	.0112	.0038	-.0745									
105.000		.1337	.0866	-.0506	-.0584	-.1031										
110.000							-.2005									



ARC11-716 1A14 01-112-512E5-AT10 CRB. FUSELAGE (RB1831)

ALPHAO (6) = 4.130 BETAO (2) = -7.960

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP									
W/LR	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.3610	-.2874	.2747	.1519	-.0622	-.0434	-.0934	-.1622		
135.000		.3123	-.0434	-.0696	-.0444	-.1612				
150.000	-.1901	-.0261	.1446	-.0239	.0243	-.0031	-.2196			
165.000	-.1449		.1401		.1143	-.0234	-.2906			
180.000	-.1105	.0037	.1431	.2094						

ALPHAO (6) = 4.130 BETAO (3) = -5.960

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP															
W/LR	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760	
PHI																
.000	1.1610	.6499	.1667	.0614	.1669	.0000		-.2618		-.1674	-.1611	-.1033	-.0349	.0727	.1349	
20.000		.2626	.1397	.1651	-.3279		-.3121		-.1599		-.1902	-.2086	-.0249	-.0244	.1207	.2162
40.000		.4600	.2272	.1642	-.1072		-.2224		-.1010		-.1362	-.5740	-.1834	-.0343	.0199	
55.000		.5696	.3266	.1946	.0336		-.1490		-.0186		-.1931	-.6074	-.2554	-.0509	.0190	
70.000		.5732	.3399	.1790	.0892		-.0312		-.2296		-.3244	-.6299	-.6551	-.1617	-.1489	
90.000	.7463		.3206	.3207	.1402	.1136	.1773		-.3926	-.1193	-.5298	-.0639	-.0639	-.0638		
120.000		.4346	.2096	.1466	.1867											
140.000		.2700	.1663	.1027	.1904		.2793									
150.000							.6061									
156.000							.3035									
162.000																
165.000																
169.000							.6199									
174.000								.7377								
180.000	1.1610	.6831	.1759	.1222	.0902	.1699		.4355		-.1470	-.7632	-.4849	-.0712	-.0274		
W/LR	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480						

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP									
W/LR	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1915	.2130	.2627	.2312	-.2760	-.2904	-.2662		-.2342	-.2507
40.000	.2233	.2912	.4366	-.0633	-.2711	-.2722	-.2697		-.2510	-.2410
70.000	-.2319	-.4927	-.1230	.0596	.0212	.0323	-.0429			
90.000	-.1963	-.4161	-.0442	.0922	-.0203	-.0111	-.0645			
105.000		.0616	-.0025	-.0623	-.0793	-.1091				
110.000										
120.000	-.2793	-.2183	.1966	.0931	-.0921	-.0664	-.1097			
135.000		.3609	-.0179	-.1020	-.0637	-.1707				
150.000	-.1360	-.0133	.1936	.0182	-.0398	-.0567	-.2362			
165.000	-.1037		.1619		.0336	-.0611	-.2747			
180.000	-.0662	.0142	.1995	.2340						

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(RB1231)

TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 01-112-SIENS-RATIO CRG. FUSELAGE

ALPHAO (8) = 4.180 BETAO (4) = -3.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1870	.1780	.2050	.2520	.3010	.3790	.4990	.3760
MHI															
.000	1.1870	.6992	.1919	.0946	.1936	.0000		-.2924		-.1493	-.1435	-.0930	-.0267	.0810	.1357
20.000								-.3023		-.1607					
40.000								-.2427		-.1618	-.2499	-.1016	-.0180	.1174	.2019
55.000								-.1443							
70.000								-.1836		-.6377	-.1940	-.0368	-.0216		
90.000								-.0662		-.2476	-.8751	-.2433	-.0442	-.0189	
120.000								-.0509		-.2975	-.6630	-.4366	-.1238	-.0817	
140.000								-.1343		-.5978					
160.000										-.4892	-.7956	-.4945	-.0254	-.0227	
180.000								.2376							
191.000								.9795							
196.000								.2793							
182.000															
169.000															
174.000															
180.000															
W/LE	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					

ALPHAO (8) = 4.040 BETAO (5) = -1.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1870	.1780	.2050	.2520	.3010	.3790	.4990	.3760
MHI															
.000	1.2000	.6624	.1878	.1018	.1726	.0000		-.2267		-.1329	-.1407	-.0754	-.0234	.0671	.1197
20.000								-.2664		-.1538					
40.000								-.2531		-.1127	-.2708	-.1088	-.0242	.1013	.1793
55.000								-.1695		-.1826					
70.000								-.1695		-.2266	-.6899	-.1691	-.0420	-.0122	
90.000								-.1131		-.2266	-.7241	-.2350	-.0427	-.0212	
120.000								-.1045		-.5054					
140.000															
160.000															
180.000															
W/LE	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1870	.1780	.2050	.2520	.3010	.3790	.4990	.3760



JRC11-716 1A14 O-VIB-SIBER+ATIO CRB. PUSBLAGE (R01231)

ALPHA(8) = 4.040 BETA(9) = -1.940

SECTION (11) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3750	.4990	.5760
IME															
120.000		.3546	.1376	.0716	.1322		.0699			-.3960	-.0999	-.3536	-.0611	-.0345	
140.000										-.4854					
150.000		.2991	.1697	.1071	.1816					-.6021	-.7391	-.4647	-.0147	-.0003	
151.000								.5460							
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.2000	.4961	.2290	.1601	.1237	.1975	.7398	.9423		-1.1310	-.6161	-.3723	.0305	.0129	
181.000	.6330	.7900	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0440					

IME

.000	.1653	.1851	.2233	.1904	-.2631	-.2647	-.2730								
40.000	.1753	.2336	.3343	-.1387	-.2531	-.2375	-.2444								
70.000	-.2270	-.4321	-.2163	-.0176	-.0766	-.0174	-.0647								
90.000	-.1610	-.3516	-.1443	-.0909	-.1133	-.0691	-.1022								
103.000															
110.000															
120.000	-.1966	-.1216	.0773	-.1089	-.1296	-.1064	-.1442								
135.000															
150.000	-.0726	.0139	.2293	.0611	-.2293	-.1751	-.2544								
165.000	-.0395														
180.000	-.0463	.0279	.1802	.4036											

ALPHA(8) = 4.050 BETA(9) = .030

SECTION (11) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3750	.4990	.5760
IME															
.000		.6615	.1874	.1015	.1616	.0000									
20.000															
40.000		.2262	.1015	.1434	-.7456										
55.000		.3037	.1182	.0678	-.3630										
70.000		.3320	.1145	.0058	-.2102										
90.000		.3366	.1074	-.0260	-.1179										
100.000	.4472	.3133	.0930	-.0598	-.0962										
120.000		.3050	.0799	.0303	.0958										
140.000															
150.000		.2512	.1490	.0603	.1711										
151.000															
156.000															
162.000															

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ARC11-716 1A14 CH+112+512MS+AT10 CRG. FUSelage MB1231)

ALPHAO (0) = 4.030 BETA0 (0) = .030

SECTION (1) 1/2BITER FUSelage DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.3760
PHI															
163.000								.9963							
199.000															
174.000						.7603									
160.000	1.2020	.4673	.2106	.1603	.1290	.2061		.5623							
W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

ALPHAO (0) = 4.030 BETA0 (0) = .030

SECTION (1) 1/2BITER FUSelage DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.3760
PHI															
.000	.1927	.1362	.1134	-.0462	-.3061	-.2734	-.2669								
40.000	.1441	.1622	.2063	-.1256	-.2932	-.2667									
70.000	-.2246	-.4166	-.2314	-.0826	-.2097	-.0466	-.1016								
90.000	-.1746	-.3170	-.1732	-.1065	-.2951	-.1412									
103.000			-.0384	-.2019	-.4266	-.1256	-.1677								
110.000															
120.000	-.1146	-.0910	.0401	-.1717	-.4961	-.1231	-.1790								
135.000			.3626	.0137	-.4206	-.1632	-.2235								
150.000	-.0967	.0137	.2437	.1014	-.3603	-.2340	-.2661								
175.000	-.0470		.1607		-.2643	-.2634	-.2467								
160.000	-.0466	.0220	.1630	.3661											

ALPHAO (0) = 4.030 BETA0 (0) = 2.030

SECTION (1) 1/2BITER FUSelage DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.3760
PHI															
.000	1.1900	.6464	.1761	.0960	.1716	.0700									
20.000			.1972	.0960	.1303	-.7976									
40.000			.2333	.0791	.0362	-.4447									
55.000			.2483	.0479	-.0333	-.2731									
70.000			.2542	.0347	-.0931	-.1822									
90.000		.3964	.1997	.0222	-.1299	-.1196									
120.000			.2303	.0416	-.0112	.0304									
140.000			.2264	.1393	.0379	.1404									
151.000															
156.000															
162.000															
163.000															
169.000															
174.000															
160.000	1.1900	.4703	.2409	.1669	.1219	.1977									
W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					



ARC11-716 1A14 CM-712-S-ENG-S-AT10 CRG. FUSELAGE (MS1031)

ALPHA (θ) = 4.030 BETA (β) = 2.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/L	.6530	.7500	.7610	.6730	.6820	.9230	.9630	1.0020	1.0210	1.0480
PH1										
0.7	.1307	.1443	.1365	-.0238	-.2962	-.2867	-.2545		-.2071	-.2033
40.000	-.1348	.1303	.1343	-.1684	-.3649	-.3072	-.2446		-.1959	-.2043
70.000	-.2211	-.3737	-.2321	-.0943	-.3477	-.1005	-.1217			
90.000	-.1643	-.2715	-.1755	-.1337	-.4212	-.1250	-.1570			
105.000		-.0841	-.2286	-.4890	-.1610	-.1741				
110.000					-.2486					
120.000	-.0911	-.0783	.0034	-.2504	-.3256	-.1724	-.1880		-.2202	
135.000			.4332	-.0301	-.5152	-.2444	-.2424			
150.000	-.0485	.0241	.2996	.1377	-.4781	-.3490	-.3045			
165.000	-.0438		.1884		-.3258	-.4077	-.2340			
180.000	-.0469	.0225	.1616	.4085						

ALPHA (θ) = 4.030 BETA (β) = 4.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/L	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.3760
PH1															
0.000	1.1720	.6218	.1481	.0907	.1448	.0000		-.2524	-.1327	-.1585	-.1249	-.0558	.0402	.0482	
20.000			.1694	.0606	.1038	-.0239		-.2556		-.1639					
40.000			.1641	.0081	-.0051	-.5182		-.2460		-.1966	-.2780	-.1718	-.0498	.0607	.1175
60.000			.1631	-.0223	-.1141	-.3431		-.2669		-.2905					
70.100			.1734	-.0361	-.1519	-.2463		-.2347		-.3406	-.0061	-.1907	-.0308	-.0042	
90.000		.2454	.1178	-.0337	-.1941	-.1653		-.2457		-.4651	-.0527	-.2441	-.0120	.0133	
120.000			.1971	-.0076	-.0701	.0059		-.0857		-.6091	-.0537	-.4187	.0159	.0045	
140.000										-.0391					
150.000			.1998	.1094	.0216	.1084				-.1.0560	-.5996	-.4447	.0190	.0094	
157.000									.0007						
166.000															
182.000															
189.000															
174.000															
182.000	1.1720	.4485	.2355	.1568	.1122	.1686									
PH1															
0.000	.1431	.1484	.1623	.0461	-.2651	-.2629	-.2575		-.2600	-.2366					
40.000	.1199	.1273	.4335	-.2874	-.4506	-.3309	-.2498		-.2373	-.2645					
70.000	-.2108	-.3291	-.2371	-.1311	-.3950	-.1724	-.1395								
90.000	-.1355	-.2306	-.1853	-.1687	-.4618	-.2096	-.1377								
105.000			-.1018	-.2647	-.5089	-.2498	-.1776								
110.000															

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(RE1231)

ARC11-716 1A14 01-112-SIZES+AT10 ORB. FUSELAGE

ALPHA(8) = 4.030 BETA(8) = 4.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0816	-.0708	-.0061	-.3137	-.5444	-.3354	-.1919	-.2043		
135.000			.4023	-.0374	-.5908	-.4926	-.2301			
150.000	-.0491	.0278	.2587	.1448	-.5045	-.4899	-.2864			
165.000	-.0506		.1838		-.3578	-.4934	-.2102			
180.000	-.0583	.0248	.1613	.3735						

ALPHA(9) = 4.020 BETA(9) = 6.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1320	.5885	.1056	.0446	.0986	.0000		-.2322	-.1892	-.2017	-.1996	-.0946	.0037	.0462	
20.000		.0912	.0167	.0533	-.8640			-.2680	-.2034						
40.000		.0770	-.0488	-.0642	-.5883			-.2527	-.2330	-.3080	-.1992	-.0906	.0331	.0939	
55.000		.0691	-.1043	-.1809	-.4170			-.2892	-.2831						
70.000		.0897	-.1137	-.2206	-.2061			-.2626	-.3733	-.8275	-.1736	-.0618	-.0171		
90.000		.1137	.0338	-.1311	-.2513	-.2423		-.2804	-.5190	-.8942	-.2491	-.0399	.0098		
120.000		.1230	-.0731	-.1497	-.0478			-.1539	-.9940	-.7647	-.4118	-.0677	.0030		
140.000		.1448	.0543	-.0169	.0569				-1.0910	-.7028	-.5300	-.0785	-.0007		
150.000								-.0718							
151.000								.2914							
156.000									.0360						
162.000										-1.0140	-.7169	-.5471	-.0730	-.0196	
165.000															
169.000								.4932							
174.000							.6311	.4863							
180.000	1.1320	.5994	.2078	.1249	.0637	.1837			-1.1630	-.7497	-.4850	-.1006	-.0241		

X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	10.2	.1271	.1479	.0670	-.2740	-.2847	-.2719			
40.000		.1018	.1121	.1479	-.3541	-.5062	-.3391	-.2533		-.2654
55.000		-.134	-.2815	-.2634	-.1689	-.3747	-.2035	-.1585		-.2847
90.000		-.1435	-.1983	-.2034	-.2107	-.4410	-.2370	-.1906		
105.000			-.1342	-.2970	-.4905	-.3018	-.2079			
110.000										-.2216
120.000	-.0770	-.0669	-.0478	-.3828	-.5372	-.3997	-.2296			-.2174
135.000			.3586	-.0679	-.6365	-.5504	-.2907			
150.000	-.0595	.0206	.2105	.1186	-.5402	-.5727	-.3276			
165.000	-.0596		.1638		-.4051	-.5149	-.2291			
180.000	-.0803	.0211	.1547	.2560						

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ARC11-716 1A14 ORBITER FUSELAGE (RB1931)

ALPHA(6) = 4.010 BETA(10) = 6.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5000
PHI															
.000	1.0640	.5328	.0485	.0002	.0464	.0000		-.2863	-.2539	-.2706	-.2114	-.1370	-.0453	-.0011	
20.000			.0217	-.0334	-.0040	-.9205		-.2870	-.2540	-.2968	-.3378	-.2281	-.1301	.0036	.0719
40.000			-.0163	-.1218	-.1208	-.6637		-.2937	-.3044	-.3044	-.4053	-.6332	-.2104	-.0816	-.0230
55.000			-.0172	-.1738	-.2390	-.4670		-.2875	-.4053	-.4053	-.6332	-.2104	-.0816	-.0230	
70.000			.0060	-.1875	-.2784	-.2352		-.2815	-.5658	-.7673	-.3230	-.0347	.0024	.0024	
90.000			-.0272	-.0366	-.1795	-.2977	-.2794	-.3101	-.7655	-.7496	-.3998	-.0789	.0075	.0075	
120.000			.0598	-.1362	-.2292	-.1075		-.2304	-1.0800	-1.1130	-.7179	-.9234	-.0809	-.0230	
140.000			.0915	.0207	-.0646	.0082			-1.1130	-.7179	-.9234	-.0809	-.0230		
150.000								.2182	-.1954						
156.000									-.0163						
162.000									-1.0270	-.7211	-.3192	-.1017	-.0450		
168.000															
174.000	1.0640	.3991	.1853	.0968	.0532	.1413	.5487	.4345	-1.1700	-.7523	-.4876	-.1228	-.0607		
180.000	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
X/LB															
PHI															
.000	.0689	.0919	.1271	.0345	-.2937	-.2956	-.2924		-.2742	-.2377					
40.000	.0846	.0994	.1368	-.3939	-.9077	-.3314	-.2788		-.2594	-.2868					
70.000	-.1842	-.2370	-.2619	-.1757	-.3926	-.2321	-.1726								
90.000	-.1995	-.1857	-.2090	-.2138	-.4579	-.2820	-.1992								
105.000			-.1336	-.2952	-.3046	-.3316	-.2350								
110.000															
120.000	-.0777	-.0363	-.0197	-.3956	-.5177	.4235	-.2583								
132.000			.2837	-.1158	-.7373	-.6354	-.3219								
150.000	-.0795	.0105	.1883	.1427	-.3863	-.6788	-.3343								
165.000	-.0669		.1937		-.4418	-.5721	-.2501								
180.000	-.1041	.0144	.1494	.2591											

ALPHA(6) = 4.000 BETA(11) = 10.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.0160	.4745	-.0151	-.0474	.0063	.0000		-.3121	-.3000	-.3393	-.2639	-.1916	-.0942	-.0549	
20.000			-.0732	-.1218	-.0216	-1.0320		-.3424	-.3269	-.3282	-.3816	-.2605	-.1586	-.0195	.0491
40.000			-.1304	-.1823	-.1704	-.8537		-.3437	-.3282	-.3282	-.3816	-.2605	-.1586	-.0195	.0491
55.000			-.1169	-.2457	-.3116	-.5411		-.3101	-.3282	-.3282	-.3816	-.2605	-.1586	-.0195	.0491
70.000			-.0796	-.2579	-.3354	-.3728		-.3034	-.4286	-.4602	-.3477	-.0884	-.0183		
90.000			-.1730	-.1120	-.2514	-.3602	-.3163	-.3580	-.6059	-.4993	-.4912	-.0364	-.0002		

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ARC11-716 1A14 01-712-S12E-S-AT10 ORB. FUSELAGE (RB1B31)

ALPHA(8) = 4.000 BETA(11) = 10.130

SECTION (1)-ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0760	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
190.000															

X/LB .0530 .7500 .7610 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI

.000	.0295	.0329	.0375	.0510	-.3042	-.2954	-.3030								
40.000	.0640	.0830	.1112	-.3996	-.3176	-.3308	-.2927								
70.000	-.1645	-.2363	-.2360	-.1948	-.3986	-.2628	-.1917								
90.000	-.1231	-.1736	-.2149	-.2374	-.4665	-.3268	-.2261								
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHA(9) = 6.000 BETA(1) = -9.980

SECTION (1)-ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0760	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
190.000															



ARC11-716 1A14 01-712-S12E5-AT10 CRB. FUSELAGE (RB1B31)

ALPHAO (1) = 6.000 BETAO (1) = -9.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
169.000															
168.000						.6769		.7915							
174.000															
180.000	1.0460	.4038	.0491	-.0012	.0012	.0798									
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					
PHI															
169.000	.2001	.2296	.2665	.2790	-.3081	-.3185	-.2971								
168.000	.2753	.3438	.4976	.0078	-.3113	-.3178	-.3027								
174.000	-.2519	-.5706	-.0615	.1544	.0620	.0521	-.0795								
180.000	-.2561	-.5000	-.0018	.1706	.0275	.0110	-.0681								
105.000															
110.000															
120.000	-.3099	-.4978	.1940	.2162	-.0915	-.0456	-.0648	-.1680							
135.000															
150.000	-.2638	-.0710	.0765	-.1018	.0968	.0125	-.2159	-.2806	-.2654						
165.000	-.1904		.0815		.1674	.0152	-.2848								
180.000	-.1821	-.0440	.0741	.1049											

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
169.000															
168.000															
174.000															
180.000	1.0460	.4038	.0491	-.0012	.0012	.0798									
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					
PHI															
169.000	.2001	.2296	.2665	.2790	-.3081	-.3185	-.2971								
168.000	.2753	.3438	.4976	.0078	-.3113	-.3178	-.3027								
174.000	-.2519	-.5706	-.0615	.1544	.0620	.0521	-.0795								
180.000	-.2561	-.5000	-.0018	.1706	.0275	.0110	-.0681								
105.000															
110.000															
120.000	-.3099	-.4978	.1940	.2162	-.0915	-.0456	-.0648	-.1680							
135.000															
150.000	-.2638	-.0710	.0765	-.1018	.0968	.0125	-.2159	-.2806	-.2654						
165.000	-.1904		.0815		.1674	.0152	-.2848								
180.000	-.1821	-.0440	.0741	.1049											

ALPHAO (2) = 5.830 BETAO (2) = -7.940

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
169.000															
168.000															
174.000															
180.000	1.1180	.6997	.1772	.0500	.1610	.0000									
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					
PHI															
169.000	.2001	.2296	.2665	.2790	-.3081	-.3185	-.2971								
168.000	.2753	.3438	.4976	.0078	-.3113	-.3178	-.3027								
174.000	-.2519	-.5706	-.0615	.1544	.0620	.0521	-.0795								
180.000	-.2561	-.5000	-.0018	.1706	.0275	.0110	-.0681								
105.000															
110.000															
120.000	-.3099	-.4978	.1940	.2162	-.0915	-.0456	-.0648	-.1680							
135.000															
150.000	-.2638	-.0710	.0765	-.1018	.0968	.0125	-.2159	-.2806	-.2654						
165.000	-.1904		.0815		.1674	.0152	-.2848								
180.000	-.1821	-.0440	.0741	.1049											

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
169.000															
168.000															
174.000															
180.000	1.1180	.6997	.1772	.0500	.1610	.0000									
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					
PHI															
169.000	.2001	.2296	.2665	.2790	-.3081	-.3185	-.2971								
168.000	.2753	.3438	.4976	.0078	-.3113	-.3178	-.3027								
174.000	-.2519	-.5706	-.0615	.1544	.0620	.0521	-.0795								
180.000	-.2561	-.5000	-.0018	.1706	.0275	.0110	-.0681								
105.000															
110.000															
120.000	-.3099	-.4978	.1940	.2162	-.0915	-.0456	-.0648	-.1680							
135.000															
150.000	-.2638	-.0710	.0765	-.1018	.0968	.0125	-.2159	-.2806	-.2654						
165.000	-.1904		.0815		.1674	.0152	-.2848								
180.000	-.1821	-.0440	.0741	.1049											

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TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 0A-712-SIZES-A710 CRB. FUSELAGE

(RB1231)

ALPHAO (9) = 5.930 BETAO (2) = -7.960

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6930	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.2027	.2226	.2798	.2649	-.2819	-.2938	-.2776		-.2726	-.2667
40.000	.2375	.3327	.4750	-.0203	-.2908	-.2908	-.2761		-.2597	-.2476
70.000	-.2598	-.5917	-.1003	.1347	.0316	.0354	-.0363			
90.000	-.2311	-.4834	-.0203	.1463	.0043	.0044	-.0787			
105.000		.1068	.0766	-.0365	-.0742	-.1074				
110.000							-.1745			
120.000	-.4282	-.3679	.1838	.1577	-.0606	-.0261	-.0965		-.1470	
135.000		.2245	-.0943	-.1776	-.0687	-.1750				
150.000	-.1936	-.0522	.1147	-.0587	.0018	-.0234	-.2144			
165.000	-.1491		.1022		.0632	-.0372	-.2736			
180.000	-.1302	-.0341	.0901	.1785						

ALPHAO (9) = 5.980 BETAO (3) = -5.960

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0005	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1760	.2030	.2520	.3010	.3790	.4990	.5790
PHI															
.000	1.1480	.6706	.1950	.0745	.1754	.0000		-.2712	-.1557	-.1351	-.0906	-.0239	.0716	.1440	
20.000		.3022	.1411	.1511	-.5110			-.3069	-.1448	-.1287	-.0623	-.0147	.1735	.2242	
40.000		.5077	.2362	.1990	-.1031			-.2153	-.0815	-.0447					
55.000		.5836	.3414	.2004	.0306			-.0447	-.1231	-.5429	-.1746	-.0619	.0167		
70.000		.5770	.3314	.1694	.0841			-.0084	-.1747	-.9549	-.2417	-.0904	.0025		
90.000		.7374	.5126	.3106	.1429	.1003		.0054	-.2276	-.6296	-.6109	-.2899	-.2054		
120.000		.4007	.1299	.1067	.1326			.1718	-.3263						
140.000		.2177	.1132	.0600	.1575				-.4149	-.6613	-.5067	-.2027	-.0666		
150.000								.2736							
151.000								.6028							
156.000									.2991						
162.000										-.15070	-.6411	-.5513	-.2106	-.0465	
165.000															
169.000															
174.000						.7136									
180.000	1.1480	.4380	.1805	.0702	.0453	.1325		.4214	-.8041	-.6579	-.5603	-.1962	-.0267		

X/LB	.6930	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.2035	.2242	.2677	.2331	-.2721	-.2930	-.2714		-.2603	-.2609
40.000	.2369	.3106	.4515	-.0311	-.2741	-.2794	-.2757		-.2504	-.2441
70.000	-.2324	-.5436	-.1339	.0684	-.0036	.0103	-.0322			
90.000	-.2203	-.4361	-.0677	.0672	-.0431	-.0347	-.0964			
105.000		.0320	-.0161	-.0611	-.0997	-.1229				
110.000							-.1626			



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 01+T12+3125+RATIO 080. FUSELAGE (021521)

ALPHAO(9) = 5.940 BETA0 (3) = -5.940

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7510	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-0.3999	-0.3011	.1161	.0820	-0.1090	-0.0628	-0.1220	-0.1571		
150.000		.2665	-0.0992	-0.1265	-0.0688	-0.1820				
190.000	-0.1478	-0.0437	.1519	-0.0120	-0.0601	-0.0772	-0.2314			
165.000	-0.1177	.1136		-0.0030	-0.0688	-0.2882				
160.000	-0.1022	-0.0247	.0991	.2350						

ALPHAO(9) = 5.950 BETA0 (4) = -3.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0790	.0830	.0470	.0750	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5780
PHI															
100.000	1.1750	.6821	.2021	.0664	.1759	.0000		-0.2321		-0.1425	-0.2264	-0.0765	-0.0237	.0823	.1468
20.000		.2678	.1361	.1496	-0.6301			-0.2974		-0.1465					
40.000		.4496	.2006	.1320	-0.2053			-0.2332		-0.1478	-0.2014	-0.0937	-0.0157	.1241	.2096
55.000		.5093	.2885	.1309	-0.0517			-0.0923		-0.1294					
70.000		.3047	.2631	.1021	.0171			-0.0636		-0.1690	-0.6116	-0.1837	-0.0655	.0142	
90.000	.6592	.4486	.2453	.0567	.0430			-0.0453		-0.2282	-0.6822	-0.2725	-0.052	.0067	
120.000		.3640	.1437	.0762	.1377			.1354		-0.2850	-0.6733	-0.5378	-0.1999	-0.1339	
140.000		.2264	.1264	.0616	.1626					-0.3922	-0.6706	-0.5101	-0.0646	-0.0308	
150.000								.2365							
151.000								.5777							
156.000															
162.000															
165.000								.6136							
169.000															
174.000															
180.000	1.1750	.4490	.1550	.1037	.0723	.1994	.7340								

X/LB	.6530	.7300	.7510	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
100.000	.2033	.2159	.2389	.2093	-0.2636	-0.2652	-0.2551			
40.000	.2231	.2726	.4190	-0.0674	-0.2692	-0.2632	-0.2546			
70.000	-0.2510	-0.2636	-0.2165	.0515	-0.0341	.0083	-0.0671			
90.000	-0.2103	-0.4349	-0.1457	.0297	-0.0642	.0677	-0.1105			
105.000			-0.0005	-0.0975	-0.1163	-0.1216	-0.1290			
110.000										
120.000	-0.2643	-0.2209	.0427	.0091	-0.1165	-0.1071	-0.1365	-0.1622		
135.000			.3037	-0.0329	-0.1190	-0.1068	-0.1891			
150.000	-0.1108	-0.0271	.1762	.0287	-0.1239	-0.1251	-0.2387			
165.000	-0.0799		.1235		-0.0963	-0.1414	-0.2419			
180.000	-0.0821	-0.0144	.1076	.2940						

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ARC11-716 1A14 01+118+31285+AT10 CRB. FUSELAGE (RB1831)

ALPHAO1 (1) = 5.940 BETA0 (5) = -1.940

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2320	.3010	.3750	.4990	.5760
PHI	.000	1.1660	.6805	.2122	.1001	.1743	.0000	-.2373	-.1268	-.1069	-.0638	-.0003	-.0767	.1294	.1881
20.000		.2764	.1309	.1308	.1308	.6940		-.2670	-.1479						
40.000		.5926	.1706	.1076	.1076	-.2999		-.2512	-.1562	-.2330	-.0977	-.0135	.1128	.1881	
55.000		.4286	.2018	.0680	.0680	-.1382		-.1653	-.1665						
70.000		.4187	.1683	.0326	.0326	-.0521		-.1182	-.2129	-.6749	-.2055	-.0535	.0116		
90.000		.5579	.3727	.1775	-.0156	-.0122		-.0988	-.2868	-.7218	-.2414	-.0723	.0121		
120.000		.3207	.1069	.0446	.1094			.0867	-.3644	-.7138	-.5339	-.1205	-.0851		
140.000									-.4843						
150.000		.2232	.1272	.0665	.1545				-.7812	-.6818	-.4953	-.0378	-.0092		
151.000								.1851							
156.000								.5338							
162.000															
165.000															
169.000															
174.000															
190.000		1.1660	.4429	.1754	.1166	.0832	.1709	.7184	-.1.0290	-.6680	-.5156	-.0080	.0013		
X/L	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

ALPHAO1 (9) = 5.940 BETA0 (6) = .040

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.1930	.6932	.2050	.1107	.1877	.0000	-.2567	-.1286	-.1060	-.0640	.0104	.0974	.1358	.1586
20.000		.2557	.1110	.1313	.1313	.7836		-.2907	-.1742						
40.000		.3261	.1593	.0780	.0780	-.3822		-.2499	-.1812	-.2266	-.1129	-.0133	.0986	.1586	
55.000		.3497	.1299	.0098	.0098	-.2389		-.2079	-.1969						
70.000		.3369	.1102	-.0305	-.0305	-.1204		-.1554	-.2350	-.7076	-.2239	-.0349	.0018		
90.000		.4509	.3035	.0928	-.0747	-.0721		-.1433	-.3425	-.7568	-.2354	-.0348	.0081		



ARC11-716 1A14 01-T12-SIZES+AT10 CR6. FU. AGE (RE1831)

ALPHA(9) = 5.940 BETA(6) = .040

SECTION (1)-ORBITER FUELAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2520	.3010	.3790	.4990	.5760
PHI															
120.000		.2792	.0657	-.0016	.0753	.0364				-.4437	-.7467	-.3634	-.0794	-.0264	
140.000										-.9816					
150.000		.2091	.1046	.0362	.1403	.4925				-.9708	-.6567	-.4997	-.0222	.0106	
151.000								.1371							
196.000									.1960						
162.000										-1.0220	-.7030	-.4820	.0226	.0115	
165.000															
169.000															
174.000															
160.000	1.1830	.4357	.1665	.1175	.0836	.1723	.7041			-1.1990	-.7909	-.3969	.0096	.0229	
W/LB	.6630	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

ALPHA(9) = 5.980 BETA(7) = 2.060

SECTION (1)-ORBITER FUELAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2520	.3010	.3790	.4990	.5760
PHI															
120.000		.1914	.0994	.1693	.0000					-.1171	-.1011	-.0659	-.0066	.0775	.1242
140.000		.2106	.0991	.1308	-.8164					-.1383					
150.000		.2486	.0762	.0391	-.4582					-.1661	-.2315	-.1348	-.0247	.0675	.1433
151.000		.2491	.0439	-.0566	-.2961					-.2250					
170.000		.2491	.0303	-.0596	-.1933					-.2671	-.7478	-.2182	-.0466	-.0030	
190.000		.3367	.2514	.0092	-.1397	-.1218				-.3906	-.8009	-.2254	-.0421	.0075	
120.000		.2214	.0078	-.0447	.0413					-.7221	-.7903	-.3927	-.0272	-.0079	
140.000										-.6781					
190.000		.1863	.0990	.0129	.1200					-1.0240	-.6847	-.4781	.0006	.0180	
151.000									.0750						
156.000															
162.000															

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TABULATED PRESSURE DATA - 1A14A - VOL. 7

(RB1B31)

ALPHA(9) = 5.00% BETA(7) = 2.000

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP														
W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
165.000															
169.000															
174.000															
180.000	1.1830	.4196	.1690	.1240	.0811	.1672									
W/LB	.6530	.7500	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
165.000															
169.000															
174.000															
180.000	1.1830	.4196	.1690	.1240	.0811	.1672									
W/LB	.6530	.7500	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480					

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP														
W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
165.000															
169.000															
174.000															
180.000	1.1830	.4196	.1690	.1240	.0811	.1672									
W/LB	.6530	.7500	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
165.000															
169.000															
174.000															
180.000	1.1830	.4196	.1690	.1240	.0811	.1672									
W/LB	.6530	.7500	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480					

ALPHA(9) = 5.00% BETA(8) = 4.070

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP														
W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
165.000															
169.000															
174.000															
180.000	1.1830	.4196	.1690	.1240	.0811	.1672									
W/LB	.6530	.7500	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
165.000															
169.000															
174.000															
180.000	1.1830	.4196	.1690	.1240	.0811	.1672									
W/LB	.6530	.7500	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480					



ARC11-716 1A14 04-712-SIENS-AT10 CRB. FUSELAGE

(R18331)

ALPHAX (9) = 5.900 BETAO (9) = 4.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

V/L/E	.6930	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
40.000	.1916	.1861	.1821	.0474	-.2374	-.2733	-.2669		-.2320	-.2239
60.000	.1364	.1326	.1320	-.2929	-.4225	-.3259	-.2445		-.2465	-.2542
70.000	-.2464	-.3072	-.2990	-.1968	-.3081	-.1101	-.1285			
90.000	-.1841	-.2772	-.2222	-.1994	-.3420	-.1474	-.1608			
109.000			-.1398	-.2968	-.4360	-.1737	-.1802			
110.000								-.2241		
120.000	-.1306	-.1067	-.0675	-.3256	-.5401	-.1963	-.1985	-.2025		
135.000			.3541	-.0821	-.2267	-.2929	-.2450			
150.000	-.0582	-.0016	.1068	.0703	-.4794	-.3801	-.2783			
165.000	-.0639		.1247		-.3590	-.4278	-.2037			
180.000	-.0726	-.0122	.1126	.3013						

ALPHAX (9) = 5.900 BETAO (9) = 6.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

V/L/E	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PHI															
20.000	1.1210	.6077	.1025	.0384	.0488	.0000		-.2369	-.1628	-.1786	-.1458	-.0638	.0142	.0965	
40.000			.0974	.0022	.0421	-.6423		-.2366	-.1928	-.2372	-.2649	-.1967	-.0648	.0408	.1128
60.000			.0727	-.0375	-.0729	-.3833		-.2467							
95.000			.0636	-.1096	-.1622	-.4229		-.2741							
70.000			.0734	-.1224	-.2190	-.2928		-.2408							
90.000		.0943	.0147	-.1368	-.2727	-.2184		-.2573							
120.000			.1020	-.0934	-.1637	-.0407		-.1316							
140.000															
150.000			.1045	.0211	-.0656	.0470									
191.000															
196.000								.2916							
198.000															
199.000															
174.000															
190.000	1.1210	.3423	.1602	.0817	.0440	.1386									
109.000															
174.000															
190.000															
24/L/E	.6930	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

V/L/E	.6930	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
40.000	.1941	.1319	.1592	.0895	-.2793	-.2862	-.2605								
60.000	.1214	.1312	.1388	-.3394	-.5124	-.3374	-.2637								
70.000	-.2253	-.2227	-.2911	-.1942	-.3482	-.1963	-.1811								
90.000	-.1725	-.2382	-.2239	-.2208	-.4438	-.2200	-.1848								
109.000			-.1408	-.3133	-.4962	-.2450	-.2045								
110.000															

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MFC11-716 1A14 OR-T12X-S12M3-A110 ORB. PUSBLAGE

(R01831)

ALPHAXI (9) = 5.990 BETA0 (9) = 6.100

SECTION (11) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PH1										
180.000	.0968	-.0832	-.0536	-3.464	-5.466	-31.43	-21.97	-.2177		
135.000				.3275	-.0729	-.5795	-.4975	-.2553		
130.000	-.0768	-.0078	1.709	.0635	-.5323	-.5402	-.2797			
166.000	-.0934		.1227		-.4213	-.4955	-.2101			
160.000	-.0997	-.011	.1083	.2319						

ALPHAXI (9) = 6.080 BETA0 (10) = 6.130

SECTION (11) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1790	.2090	.2320	.3010	.3790	.4990	.5780
PH1															
180.000	1.0680	.5955	.0599	-.0094	.0353	.0000		-.2604	-.2055	-.2390	-.2012	-.1160	-.0313	.0122	
80.000			.0209	-.0575	-.0049	-.6666		-.2532	-.2336	-.2754	-.3237	-.2337	-.1163	.0099	.0646
40.000			-.0204	-.1165	-.1237	-.6530		-.2665	-.2843	-.2430	-.2843				
95.000			-.0371	-.1637	-.2481	-.4780		-.2672	-.3791	-.4200	-.2051	-.1011	-.0331		
70.000			-.0071	-.1954	-.2668	-.3217		-.2956	-.5229	-.6742	-.2925	-.0711	-.0096		
90.000			-.0917	-.0792	-.2105	-.3220	-.2620	-.2956	-.7417	-.6827	-.4395	-.1399	-.0002		
120.000			.0321	-.1614	-.2399	-.1003		-.2036	-1.0660	-1.1270	-.7103	-.5432	-.1410	-.0120	
140.000			.0539	-.0094	-.1008	-.0036		-.2140	-.1613						
131.000									-.0313						
156.000										-.9782	-.6690	-.5430	-.1747	-.0425	
162.000															
169.000															
174.000															
180.000	1.0680	.2996	.1324	.0539	.0101	.1102		.4212		-.6448	-.6975	-.5430	-.1747	-.6539	

ALPHAXI (9) = 6.030 BETA0 (10) = 6.130

SECTION (11) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PH1										
180.000	.0871	.0762	.1309	.0552	-.2917	-.2793	-.2789		-.2699	-.2361
40.000	.1030	.1147	.1480	-.3846	-.5062	-.3349	-.2685		-.2909	-.2695
70.000	-.2133	-.2906	-.2765	-.1932	-.3631	-.2119	-.1700			
90.000	-.1613	-.2203	-.2222	-.2306	-.4140	-.2433	-.1930			
105.000			-.1432	-.3099	-.4647	-.2913	-.2257			
110.000										
120.000	-.0963	-.0837	-.0117	-.3621	-.5665	-.3775	-.2346			
135.000			.2999	-.1087	-.6401	-.5469	-.2766			
130.000	-.1003	-.0805	-.1474	.0468	-.5848	-.5946	-.3070			
165.000	-.1099		.1048		-.4731	-.5024	-.2262			
180.000	-.1162	-.0220	.0984	.1666						



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MFC11-716 1A14 01-1128-318E-3-A110 CRZ. PURCHASE 08010311

ALPHA(X) = 8.990 BETA(D) = 10.120

SECTION (1) CRIBITER PURCHASE DEPOSIT VARIABLE CP

W/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.0010	.0095	-.0168	-.0791	-.0139	.0000		-.2967		-.2766	-.3147	-.2346	-.1795	-.0799	-.0435
20.000		-.0795	-.1313	-.0399	-.9684			-.3164		-.2996	-.3246	-.2061	-.1902	-.0165	.0992
40.000		-.1967	-.1845	-.1770	-.7921			-.3400		-.3246	-.3782	-.2061	-.1902	-.0165	.0992
60.000		-.1895	-.2576	-.3229	-.9261			-.3079		-.3125	-.4045	-.2836	-.0943	-.0283	
80.000		-.0999	-.2968	-.3353	-.3705			-.2919		-.4045	-.2836	-.2836	-.0943	-.0283	
90.000	-.2103	-.1418	-.2080	-.3024	-.3156			-.3270		-.3639	-.9033	-.4609	-.0345	-.0165	
100.000		-.0434	-.2257	-.3160	-.1980			-.2837		-.8144	-.9540	-.9081	-.0316	.0004	
120.000								-.11990		-.11440	-.8402	-.4342	-.0517	-.0498	
140.000		-.0063	-.0063	-.1622	-.0673			-.2982		-.11440	-.8402	-.4342	-.0517	-.0498	
160.000								-.1430		-.0063	-.8229	-.4291	-.0645	-.0629	
180.000								-.3981		-.0063	-.8229	-.4291	-.0645	-.0629	
190.000															
190.070	1.0010	.2293	.0032	.0034	-.0337	.0089	.4871	.2091		-.11940	-.7148	-.4687	-.0853	-.1173	
W/LB	.0000	.7500	.7810	.9230	.9620	.9230	.9430	1.0020	1.0210	1.0400					

PHI

.000	.0479	.0645	.0941	.0468	-.3174	-.2905	-.2965			-.2775	-.2485				
20.000	.0627	.0829	.1282	-.4023	-.5316	-.3238	-.2931			-.3029	-.3159				
40.000	-.1937	-.2642	-.2761	-.2096	-.3725	-.2169	-.1942								
60.000	-.1520	-.2041	-.2272	-.2996	-.4790	-.3048	-.2253								
80.000		-.1478	-.2179	-.2379	-.3756	-.2364									
100.000			-.0191	-.4238	-.6996	-.4606	-.2634	-.2141							
120.000	-.1015	-.0769	-.3133	-.1354	-.5425	-.7484	-.2061	-.2096							
140.000		-.1219	-.0296	.1997	-.6973	-.7292	-.3478								
160.000	-.1468	-.1229		-.9061	-.9230	-.2905									
180.000	-.1886	-.0173	.1131	.1247											

ALPHA(X) = 6.070 BETA(D) = -9.970

SECTION (1) CRIBITER PURCHASE DEPOSIT VARIABLE CP

W/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1990	.1970	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.0390	.6206	.1613	.0210	.1177	.0000		-.3007		-.1716	-.1533	-.1036	-.0615	-.0984	.1210
20.000		.3820	.1304	.1101	-.3003			-.3333		-.1295					
40.000		.6209	.3094	.2011	.0206			-.1671		-.0618	-.0609	-.0336	.0101	.1902	.2427
60.000		.7924	.4822	.3395	.1778			.0763		.0314					
80.000		.7347	.4853	.3137	.2110			.1126		-.0041	-.1982	-.1137	-.0446	.0296	
90.000	.6069	.0322	.4312	.2674	.2245			.1310		-.0663	-.1667	-.1762	-.0961	-.0091	

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ARC11-716 1A14 OI-TI2-SI2MS-A110 ORB. PUSLAGE (R01231)

ALPHA(10) = 0.000 BETA(1) = -9.970

SECTION (1) ORBITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0007	.0020	.0470	.0700	.1120	.1900	.1870	.1780	.2030	.2320	.3010	.3790	.4990	.5760
P41															
120.000			.4832	.1019	.1129	.1417		.2174							
140.000															
190.000			.1397	.0236	-.0057	.0947									
131.000															
196.000								.3206							
162.000															
193.000															
198.000															
174.000								.6145							
192.000															
194.000															
191.000															
195.000															
197.000															

W/LB .0000 .7900 .7910 .0200 .0600 .0200 .9000 1.0000 1.0210 1.0400

P41

60.000	.1901	.2179	.2366	.2499	.2600	-.3122	-.2960								
70.000	.2082	.2616	.4674	.0153	-.2960	-.3008	-.2932								
90.000	-.2929	-.6106	-.1344	1.428	-.0054	.0186	-.0761								
105.000	-.2713	-.5403	.0040	1.086	-.0022	-.0170	-.0662								
110.000															
120.000	-.6016	-.4409	.1039	.2274	-.1108	-.0912	-.1044								
135.000															
190.000	-.2099	-.0936	.0506	-.0802	-.0017	-.0211	-.2234								
195.000	-.2085	.0294	.0294	.0262	-.0140	-.2903									
190.000	-.1891	-.0939	.0133	.1438											

ALPHA(10) = 0.000 BETA(2) = -7.990

SECTION (1) ORBITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1370	.1780	.2030	.2320	.3010	.3790	.4990	.5760
P41															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
190.000															
191.000															
196.000															
197.000															



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ARC11-716 1A14 01+T12+S12E+S110 CRB. FUSELAGE

(RB1031)

ALPHA(10) = 6.000 BETA(2) = -7.950

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
165.000								.5899							
169.000															
174.000															
180.000	1.0930	.3748	.0344	.0003	-.0166	.0790	.6625	.3115							
X/LB	.6530	.7500	.7610	.6230	.6820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHA(10) = 7.960 BETA(3) = -5.930

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.1270	.6944	.2109	.0665	.1571	.0000									
X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000															

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 1A14 OR-712+512023+AT10 CRB. FUSELAGE (R81831)

ALPHA(10) = 7.980 BETA(3) = -3.950

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1945	.2084	.2449	.1963	-.2624	-.2900	-.2370		-.2312	-.2505
40.000	.2275	.2829	.4177	-.0898	-.2759	-.2767	-.2676		-.2509	-.2404
70.000	-.2963	-.5869	-.3099	.0772	-.0219	-.0076	-.0627			
90.000	-.2544	-.5007	-.1635	.0649	-.0600	-.0558	-.1056			
105.000			-.0036	-.0170	-.0932	-.1135	-.1315			
110.000										-.1848
120.000	-.4064	-.5227	.0279	.1079	-.1251	-.0994	-.1355			-.1531
135.000			.1624	-.0940	-.1476	-.1083	-.1939			
150.000	-.1757	-.0827	-.1073	-.0131	-.0959	-.1031	-.2247			
165.000	-.1497		.0633							
180.000	-.1275	-.0645	.0517	.2375	-.0610	-.1014	-.2621			

ALPHA(10) = 7.940 BETA(4) = -3.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.1790	.4990	.5780
PHI															
.000	1.1970	.7000	.2164	.1028	.1667	.0000		-.2376	-.1175	-.0970	-.0326	-.0156	.0915	.1417	
20.000			.3107	.1411	.1422	-.6186		-.3006	-.1274	-.1460	-.0356	-.0034	.1320	.2070	
40.000			.4795	.2221	.1995	-.1679		-.2332	-.1217	-.1460	-.0356	-.0034	.1320	.2070	
55.000			.5282	.2865	.1410	-.0472		-.1003	-.1059						
70.000			.5046	.2598	.0996	.0136		-.0556	-.1548	-.5748	-.1793	-.0866	.0005		
90.000		.6410	.4331	.2346	.0697	.0313		-.0391	-.2150	-.6458	-.2140	-.1121	-.0084		
120.000			.3306	.0515	.0416	.1076		.1311	-.2895	-.6852	-.4667	-.2915	-.1781		
140.000									-.4043						
150.000			.1752	.0745	.0203	.1257		.2284	-.4990	-.6093	-.5254	-.2167	-.0392		
151.000								.9668							
156.000															
162.000															
165.000															
169.000															
174.000						.7115									
180.000	1.1970	.5919	.1090	.0532	.0311	.1281		.4635	-.9983	-.6221	-.5543	-.2152	-.0196		

X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.2023	.2109	.2408	.1804	-.2535	-.2888	-.2325		-.2354	-.2429
40.000	.2133	.2666	.3676	-.1468	-.2743	-.2608	-.2488		-.2426	-.2285
70.000	-.2855	-.5722	-.3767	.0378	-.0637	-.0305	-.0725			
90.000	-.2459	-.4755	-.2232	.0144	-.0978	-.0890	-.1175			
105.000			-.0507	-.0982	-.1322	-.1336	-.1435			
110.000										-.1819



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ARC11-716 1A14 ORBITER SIZE RATIO CRB. FUSELAGE

(R81831)

ALPHA(10) = 7.940 BETA(4) = -3.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.3075	-.2465	-.0029	.0282	-.351	-.1205	-.1455	-.1576		
135.000		.2179	-.0661	-.1342	-.1207	-.1967				
150.000	-.1412	-.0735	.1265	.0041	-.1616	-.1398	-.2317			
165.000	-.1216		.0768		-.1280	-.1494	-.2435			
180.000	-.0949	-.0466	.0758	.2965						

ALPHA(10) = 7.940 BETA(5) = -1.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0291	.0470	.0700	.1120	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI														
20.000	1.1740	.7186	.2341	.1264	.1823	.0000	-.2347	-.1099	-.0999	-.0354	-.0028	.0784	.1346	
25.000		.2563	.1480	.1553	-.6797		-.2384	-.1247	-.1362	-.1809	-.0667	-.0035	.1144	.1904
40.000		.4169	.1930	.1162	-.2762		-.2434	-.1460	-.1945	-.6377	-.1735	-.0940	-.0067	
55.000		.4439	.2141	-.0781	-.1261		-.1505	-.1945	-.2648	-.7031	-.2057	-.1146	-.0067	
70.000		.4235	.1901	.0301	-.0517		-.1015	-.3530	-.7129	-.3333	-.2342	-.1142		
90.000		.5420	.3616	.1666	-.0024	-.0204	-.0869	-.4792	-.7421	-.6027	-.5328	-.1875	-.0170	
120.000		.2907	.0711	.0056	.0911									
140.000		.1777	.0768	.0264	.1309									
150.000							.5304							
156.000							.2241							
162.000														
165.000														
169.000														
174.000														
180.000	1.1740	.3819	.1301	.0768	.0443	.1431	.6862	.5096	.8054	.6212	-.5377	-.2140	.0307	

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
20.000	.1919	.1990	.2355	.1756	-.2883	-.2834	-.2534	-.2353	-.2414	
40.000	.1934	.2441	.3412	-.1585	-.2668	-.2567	-.2507	-.2408	-.2276	
70.000	-.2786	-.5362	-.4819	-.0081	-.0655	-.0467	-.0809			
90.000	-.2304	-.4514	-.2398	-.0490	-.1335	-.0974	-.1229			
105.000			-.0956	-.1796	-.1652	-.1346	-.1534			
110.000										
120.000	-.2336	-.1942	-.0429	-.0619	-.1345	-.1376	-.1814			
135.000			.2572	-.0544	-.1392	-.1435	-.2012			
150.000	-.1156	-.0647	.1488	.0248	-.2429	-.1916	-.2735			
165.000	-.0909		.0945		-.1830	-.1903	-.2228			
180.000	-.0765	.0342	.0819	.3028						

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ARC11-716 1A14 01-712-512M3-AT10 ORG. FUSELAGE (R81831)

ALPHA(10) = 7.890 BETA(6) = .090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.1770	.7102	.2232	.1196	.1831	.0000	-.2381	.1247	-.1138	-.0841	-.0492	.0137	.0921	.1448
20.000				.2822	.1260	.1549	-.7474	-.2722	.4792	-.1358	-.2126	-.0900	-.0116	.0990	.1637
40.000				.3370	.1389	.0933	-.3886	-.2243	.5700	-.1478	-.1799	-.0695	-.0468	-.0127	
55.000				.3429	.1237	.0040	-.2161	-.1872	.6839	-.2384	-.6895	-.1903	-.0963	-.0123	
70.000				.3220	.1012	-.0420	-.1101	-.1447		-.3201	-.7543	-.1971	-.0963	-.0123	
90.000		.4290	.2824	.0909	-.0954	-.0866	-.1301	-.1301		-.4303	-.7390	-.3328	-.1690	-.0603	
120.000			.2428	.0338	-.0402	.0610	.0430	.0430		-.5784					
140.000			.1809	.0644	-.0026	.1181				-.9540	-.6235	-.5310	-.1556	.0055	
150.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.1770	.3860	.1163	.0799	.0440	.1470	.6839	.5307		-.7930	-.6989	-.5390	-.1922	.0326	
W/LB	.6530	.7900	.7810	.6230	.6820	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	1.1770	.1722	.1488	-.0116	-.3157	-.2763	-.2664		-.2367	-.2327					
40.000		.1719	.1904	-.1279	-.2784	-.2647	-.2542		-.2338	-.2128					
70.000		-.2724	-.5330	-.4283	-.0439	-.1282	-.0795	-.1167							
90.000		-.2189	-.4202	-.2769	-.0979	-.1796	-.1142	-.1472							
105.000			-.1234	-.2239	-.1909	-.1596	-.1383								
110.000								-.1808							
120.000		-.1688	-.1822	-.0823	-.1780	-.1845	-.1887	-.1387							
135.000			.2933	-.0345	-.2048	-.1757	-.2214								
150.000		-.0901	-.0575	.1674	.0479	-.3102	-.2302	-.2573							
165.000		-.0792		.1061		-.2335	-.2441	-.2070							
180.000	-.0889	-.0335	.0886	.3207											

ALPHA(10) = 7.940 BETA(7) = 2.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.1680	.6909	.2027	.0958	.1547	.0000	-.2427	.1214	-.1050	-.0834	-.0497	-.0155	.0787	.1214
20.000				.2219	.0961	.1208	-.8053	-.2656		-.1178					
40.000				.2494	.0803	.0444	-.4320	-.2308		-.1338	-.2110	-.1238	-.0357	.0846	.1594
55.000				.2437	.0473	-.0635	-.2837	-.2209		-.2087					
70.000				.2322	.0214	-.1151	-.1723	-.1810		-.2705	-.7338	-.1766	-.1002	-.0211	
90.000		.3091	.1983	.0034	-.1603	-.1202		-.1775		-.3705	-.7961	-.1824	-.0925	-.0044	



ARC11-716 1A14 01+112+S12E25+AT10 ORB. FUSELAGE (RB1831)

ALPHA(10) = 7.940 BETA(7) = 2.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
120.000		.1875	-.0157	-.0690	.0273		-.0072		-.5109	-.7595	-.3226	-.1398	-.0264		
140.000									-.6784						
150.000		.1410	.0422	-.0311	.0940			.0666	-1.0320	-.6577	-.5175	-.1637	.0206		
151.000							.4217								
154.000								.1264							
162.000									-1.0310	-.6664	-.5416	-.1927	.0272		
165.000							.5368								
169.000						.6655									
174.000								.5182							
180.000	1.1680	.3551	.1410	.0771	.0401	.1376			-.8151	-.6577	-.5530	-.1991	.0232		
X/LB	.6930	.7900	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.1750	.1691	.1375	-.0011	-.3024	-.2969	-.2564		-.2025	-.2026					
40.000	.1612	.1588	.1666	-.1668	-.3976	-.3534	-.2631		-.1892	-.1962					
70.000	-.2772	-.4970	-.3756	-.1135	-.2005	-.1014	-.1403								
90.000	-.2178	-.3888	-.2750	-.1732	-.2422	-.1407	-.1787								
105.000			-.1470	-.2684	-.3173	-.1797	-.1980								
110.000								-.2508							
120.000	-.1405	-.1490	-.0648	-.2691	-.3888	-.1789	-.2100	-.2288							
135.000			.3225	-.0554	-.4750	-.2141	-.2536								
150.000	-.0806	-.0419	.1694	.0916	-.4316	-.2856	-.2972								
165.000	-.0705	.0994	.0994	-.3069	-.3306	-.2462									
180.000	-.0760	-.0411	.0787	.3045											

ALPHA(10) = 6.010 BETA(8) = 4.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.1480	.6680	.1644	.0779	.1244	.0000		-.2284		-.1150	-.1151	-.0814	-.0323	.0444	.0895
20.000			.1667	.0546	.0936	-.8024		-.2326		-.1315					
40.000			.1662	.0221	-.0089	-.5193		-.2252		-.1665	-.2333	-.1514	-.0402	.0688	.1331
55.000			.1510	-.0330	-.1223	-.3719		-.2417		-.1670					
70.000			.1520	-.0323	-.1757	-.2323		-.2054		-.2964	-.7572	-.1797	-.1082	-.0323	
90.000		.1886	.1280	-.0760	.2205	-.1693		-.2115		-.4076	-.8263	-.1898	-.1067	-.0073	
120.000			.1359	-.0624	-.1151	-.0092		-.0599		-.5747	-.6864	-.3741	-.1531	-.0085	
140.000										-.7749					
150.000			.1151	.0356	-.0585	.0698			-.1.0550	-.6543	-.5495	-.2081	.0262		
151.000									-.0003						
156.000								.3569							
182.000															.0734

ORIGINAL PAGE IS
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ARC11-716 1A14 OR-T12+S12E25-A110 ORB. FUSELAGE

(R81231)

ALPHA(10) = 6.010 BETA(8) = 4.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
165.000								.5018							
169.000						.6596									
174.000					.0213	.1275		.4959							
180.000	1.1460	.3333	.1363	.0669	.0213	.1275									
X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.0000	.1468	.1431	.1328	.0447	-.2092	-.2629	-.2613								
40.000	.1434	.1420	.1365	-.2043	-.4494	-.3335	-.2420								
70.000	-.2742	-.4294	-.3356	-.1823	-.2083	-.1271	-.1372								
90.000	-.2090	-.3293	-.2472	-.2116	-.3353	-.1545	-.1653								
105.000															
110.000															
120.000	-.1225	-.1437	-.0856	-.3049	-.5959	-.1794	-.2061								
135.000															
150.000	-.0729	-.0316	.3574	.0465	-.5448	-.2465	-.2518								
165.000	-.0778		.1012	.0447	-.4678	-.3540	-.2630								
180.000	-.0669	-.0477	.0749	.2613											

ALPHA(10) = 6.000 BETA(9) = 6.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.0000															
20.000															
40.000															
59.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0970	.2793	.1046	.0379	-.0048	.1069									
X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.0000															
20.000															
40.000															
59.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0970	.2793	.1046	.0379	-.0048	.1069									
X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					



ARC11-716 1A14 01-112-S12M3-A110 CR8. FUSELAGE

(R1231)

ALPHA(10) = 8.000 BETA(9) = 6.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.6530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1166	.1200	.1376	.0460	-.2731	-.2674	-.2646		-.2379	-.2430
40.000	.1233	.1269	.1654	-.3928	-.4631	-.3960	-.2357		-.2716	-.2728
70.000	-.2622	-.3796	-.3139	-.2099	-.2829	-.1980	-.1452			
90.000	-.2031	-.2902	-.2412	-.2387	-.3553	-.1853	-.1700			
105.000			-.1540	-.3267	-.4560	-.2162	-.1666			
110.000								-.2073		
120.000	-.1230	-.1357	-.0704	-.3292	-.5618	-.2279	-.2123	-.2070		
135.000			.3344	-.0771	-.9724	-.3402	-.2347			
150.000	-.0696	-.0379	.1469	.0151	-.5245	-.4750	-.2741			
165.000	-.1034		.0780		-.4186	-.4780	-.2043			
180.000	-.1278	-.0387	.0563	.2363						

ALPHA(10) = 7.960 BETA(10) = 6.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.0430	.5644	.0461	-.0156	.0236	.0000		-.2437	-.1759	-.2016	-.1801	-.1096	-.0201	.0116	
20.000		.0047	-.0658	-.0092	-.6690		-.2326		-.2107						
40.000		-.0414	-.1260	-.1273	-.6324		-.2713		-.2651	-.3179	-.2263	-.1099	.0216	.0661	
55.000		-.0337	-.1938	-.2637	-.4825		-.2653		-.2671						
70.000		-.0330	-.2074	-.2944	-.3316		-.2576		-.3568	-.7630	-.2041	-.1271	-.0319		
90.000		-.0924	-.0919	-.2225	-.3496	-.2690	-.2804		-.4933	-.9006	-.2279	-.1096	-.0265		
120.000		-.0017	-.1799	-.2630	-.1049		-.1929		-.7232	-.6603	-.4259	-.1602	-.0041		
140.000			.0062	-.0355	-.1365	-.0207			-1.0380						
150.000									-1.1450	-.6393	-.5656	-.2216	-.0090		
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0490	.2320	.0727	.0057	-.0437	.0752	.3220		-.7279	-.6360	-.5801	-.2161	-.0446		
X/L	.6530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0663	.0914	.1196	.0364	-.2664	-.2762	-.2663		-.2625	-.2362					
40.000	.1116	.1142	.1434	-.3670	-.4693	-.3247	-.2752		-.2734	-.2645					
70.000	-.2442	-.3327	-.3023	-.2112	-.2937	-.1794	-.1568								
90.000	-.1933	-.2671	-.2372	-.2399	-.3965	-.1959	-.1764								
105.000			-.1502	-.3261	-.4633	-.2420	-.2011								
110.000															

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(R81831)

ARC11-716 1A14 06+712+8125+AT10 ORG. SURFACE

ALPHA(10) = 7.900 BETA(10) = 0.120

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480
P41										
120.000	-1.1948	-1.1866	-1.0221	-1.3271	-1.3769	-2.779	-2.272	-2.2067		
135.000			.2374	-1.0061	-.9942	-.4394	-.2729			
150.000	-1.1169	-1.0648	.1015	-.0375	-.5727	-.5300	-.2823			
165.000	-1.1275		.0224							
180.000	-1.1479	-1.0887	.0384	.1636						

ALPHA(10) = 7.950 BETA(11) = 10.200

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0476	.0700	.1120	.1590	.1670	.1780	.2030	.2120	.3010	.3790	.4990	.5760
P41															
.000	9.711	.5006	-.0137	-.0963	-.0236	.0000		-.2962		-.2422	-.2654	-.2266	-.1629	-.0603	-.0222
20.000			-.0942	-.1360	-.0579	.9374		-.3130		-.2701		-.3662	-.2961	-.1466	-.0001
40.000			-.1532	-.1772	-.1856	-.7477		-.3306		-.3022					.0417
55.000			-.1480	-.2459	-.3807	-.5986		-.2691		-.2874					
70.000			-.1085	-.2303	-.3406	-.9516		-.2797		-.3721	-.7754	-.2140	-.1530	-.0621	
90.000	-.2823	-.1623	-.2960	-.3922	-.3231			-.3116		-.5348	-.7233	-.2339	-.1369	-.0361	
100.000		-.0642	-.2347	-.3237	-.1693			-.2745		-.6003	-.6366	-.4952	-.2161	-.0175	
140.000		-.0962	-.1140	-.1963	-.0626					-1.1420	-.6356	-.3674	-.2327	-.0626	
150.000								-.2649							
174.000								.1315							
196.000								-.1049							
162.000										-.7233	-.6470	-.6166	-.2506	-.0614	
169.000															
174.000								.3414							
189.000	9.711	.1366	.0262	-.0460	-.0620	.0315	.4316	.2391							
190.000															
X/LB <th>.6530</th> <th>.7500</th> <th>.7610</th> <th>.6230</th> <th>.6620</th> <th>.9230</th> <th>.9630</th> <th>1.0020</th> <th>1.0210</th> <th>1.0480</th> <td></td> <td></td> <td></td> <td></td> <td></td>	.6530	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

P41

.000	0.229	.0711	.1015	.0370	-.3013	-.2693	-.2306								
40.000	0.822	.1077	.1300	-.1749	-.4995	-.3233	-.2731								
70.000	-.2453	-.3210	-.2647	-.2130	-.2979	-.2016	-.1713								
90.000	-.2096	-.2594	-.2374	-.2311	-.3415	-.2338	-.1937								
105.000			-.1474	-.3130	-.4367	-.2902	-.2136								
110.000															
120.000	-.1368	-.1308	.0700	-.3148	-.5579	-.3265	-.2369	-.2277							
135.000			.2341	-.1674	-.0221	-.4942	-.2966								
150.000	-.1680	-.0862	-.2441	-.0967	-.6329	-.3336	-.2823								
165.000	-.1709		.0129												
180.000	-.1723	-.0794	.0163	.1351											



ARC11-718 1A14 01-712-312E3-AT10 CRG. FUELRAGE (M81831)

ALPHA(11) = 9.900 BETA(1) = -9.990

SECTION (1) CRIBITER FUELRAGE DEPENDENT VARIABLE CP

V/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1870	.1760	.2090	.2320	.3010	.3790	.4990	.9780
PMI	.000	1.0290	.6417	.1672	.0190	.0978	.0000	-.3022	-.1604	-.1591	-.0775	-.0543	.0685	.1312	
20.000								-.3552	-.1196						
40.000								-.1941	-.0496	-.0613	-.0185	.0112	.1596	.2445	
55.000								.0415	.0449						
70.000								.1166	.0014	-.1722	-.1065	-.0583	.0303		
90.000								.1315	-.0504	-.1660	-.1760	-.1151	-.0108		
120.000								.1972	-.1322	-.4164	-.7298	-.5436	-.5199		
140.000									-.2371						
150.000									-.3672	-.7091	-.9808	-.8298	-.1672		
171.000								.6026	.3172						
196.000									.2937						
162.000															
189.000															
174.000															
160.000															

ALPHA(11) = 10.010 BETA(2) = -7.910

SECTION (1) CRIBITER FUELRAGE DEPENDENT VARIABLE CP

V/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1870	.1760	.2090	.2320	.3010	.3790	.4990	.9780
PMI	.000	1.0790	.6827	.2044	.0217	.1294	.0000	-.2943	-.1467	-.1028	-.0682	-.0219	.0756	.1372	
20.000								-.3196	-.1114						
40.000								-.1600	-.0715	-.0791	-.0297	.0091	.1920	.2932	
55.000								.0279	-.0007						
70.000								.0655	-.0429	-.2794	-.1492	-.0711	.0232		
90.000								.0799	-.1040	-.3038	-.2180	-.1204	-.0131		

TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 OR-TIS-SIZES+AT10 CRG. FURSLAGE (0101231)

ALPHAO(111) = 10.010 BETAO (2) = -7.910

SECTION (1)-ORBITER FURSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1580	.1670	.1700	.2030	.2020	.3010	.3790	.4990	.5760
PWT															
100.000			.3572	.1060	.0400	.0947		.1605		-.1757	-.2618	-.6195	-.4994	-.6802	
140.000										-.2649					
180.000			.0862	-.0070	-.0547	.0713		.2908		-.4130	-.6464	-.5625	-.2657	-.1161	
194.000								.5972							
162.000								.2664							
166.000								.5769							
169.000							.6422								
174.000								.3016							
160.000	1.0720	.3191	-.0164	-.0016	-.0517	.0497				-.6466	-.6215	-.6341	-.2866	-.0729	

W/LB .6880 .7800 .7810 .8230 .8620 .9630 .9430 1.0020 1.0210 1.0460

SECTION (1)-ORBITER FURSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1580	.1670	.1700	.2030	.2020	.3010	.3790	.4990	.5760
PWT															
.000			.2026	.2101	.2576	.2537	-.2963	-.3091	-.2794			-.2683	-.2609		
40.000			.2394	.3840	.4591	-.0139	-.2963	-.2691	-.2939			-.2335	-.2421		
70.000			-.2930	-.6297	-.1922	.0829	-.0637	-.0406	-.0662						
90.000			-.2789	-.5497	-.1041	.1171	-.0909	-.0796	-.1252						
105.000					.0192	.0810	-.1396	-.1366	-.1502						
110.000									-.1900						
120.000			-.3687	-.2542	-.0075	.2078	-.1727	-.1237	-.1539						
135.000					.0074	-.1408	-.1609	-.1391	-.2192						
150.000			-.2204	-.1326	.0199	-.0461	-.0622	-.0699	-.2147						
169.000			-.1949		-.0102		-.0324	-.0910	-.2498						
180.000			-.1769	-.1175	-.0097	.1965									

ALPHAO(111) = 9.920 BETAO (2) = -5.920

SECTION (1)-ORBITER FURSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1580	.1670	.1700	.2030	.2020	.3010	.3790	.4990	.5760
PWT															
.000			1.1100	.7133	.2221	.0645	.1487	.0000	-.2334			-.1346	-.1032	-.0900	.1922
20.000					.3434	.1439	-.1235	-.4716	-.2597			-.1179			
40.000					.5376	.2491	.1631	-.0864	-.1966			-.0099	-.1072	-.0462	.0017
59.000					.6181	.3622	.2077	.0368	-.0304			-.0429			
70.000					.5796	.3302	.1806	.0843	.0161			-.0094	-.4483	-.1798	-.0639
90.000			.7096		.4900	.2938	.1171	.1122	.0230			-.1490	-.5561	-.2291	-.1310
100.000					.3209	.0943	.0212	.0909	.1626			-.2214	-.6366	-.5984	-.4227
120.000									-.3334			-.4584	-.6090	-.5644	-.2653
140.000					.1103	.0096	-.0454	.0921	.2600						
150.000															
194.000									.9636						
194.000															
182.000															



ARC11-716 1A14 CR1-T12-S12MS-AT10 CR3. PUSBLAGE (R01831)

ALPHAX(11) = 9.980 BETA0 (3) = -3.980

SECTION (1) CRITTER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0040	.0200	.0470	.0700	.1120	.1590	.1760	.2050	.2310	.3100	.3790	.4990	.9760
PHI														
166.000														
169.000														
174.000														
180.000	1.1100	.3842	.0205	-.0105	-.0316	.0004	.6496							
W/LB	.6630	.7500	.7610	.6230	.8620	.9230	.9430	1.0020	1.0210	1.0480				
PHI														
40.000	2.099	.2253	.2319	.1933	-.2767	-.2336	-.2716							
48.000	.2437	.3076	-.4339	-.0803	-.2636	-.2957	-.2746							
70.000	-.2976	-.6130	-.2394	.0720	-.0902	-.0818	-.0944							
90.000	-.2419	-.3230	-.1277	.0718	-.1140	-.0931	-.1151							
105.070														
110.000														
120.000	-.4477	-.2948	.0120	.1954	-.1729	-.1348	-.1619							
125.000														
130.000	-.1069	-.1169	.0982	-.0303	-.1370	-.1345	-.2235							
166.000	-.1709	.0271												
180.000	-.1411	-.1016	.0210	.2393										

ALPHAX(11) = 9.940 BETA0 (4) = -3.950

SECTION (1) CRITTER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0040	.0200	.0470	.0700	.1120	.1590	.1760	.1760	.2050	.2310	.3100	.3790	.4990	.9760
PHI															
20.000	1.1480	.7264	.2300	.0805	.1635	.0000									
30.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
160.000															
171.000															
174.000															
182.000															
189.000															
194.000															
199.000															
W/LB	1.1480	.3408	.0603	.0198	-.0084	.1016									
PHI															
166.000															
169.000															
174.000															
180.000															
PHI															
20.000															
30.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
160.000															
171.000															
174.000															
182.000															
189.000															
194.000															
199.000															
W/LB	.6630	.7570	.7610	.6230	.6480	.9230	.9430	1.0020	1.0210	1.0480					
PHI															
20.000															
30.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
160.000															
171.000															
174.000															
182.000															
189.000															
194.000															
199.000															
W/LB	.6630	.7570	.7610	.6230	.6480	.9230	.9430	1.0020	1.0210	1.0480					
PHI															
20.000															
30.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
160.000															
171.000															
174.000															
182.000															
189.000															
194.000															
199.000															



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ARC11-716 1A14 X-RT12-61823-ATT16 CR. PURCHASE

0818311

ALPHAO(11) = 9.940 BETA(4) = -3.950

SECTION (11) CRITER PURCHASE		DEPENDENT VARIABLE C P								
V/LB	.0000	.7200	.7910	.0020	.0000	.9600	1.0000	1.0010	1.0400	
PHI	.000	.0073	.0235	.2515	.1923	-.2069	-.2306	-.2004	-.2573	-.2506
40.000	.0230	.0021	-.0023	-.1007	-.2913	-.2935	-.2716	-.1071	-.2300	-.2306
70.000	-.0976	-.0023	-.0006	.0303	-.0006	-.0761	-.1071			
90.000	-.2342	-.0014	-.0074	.0319	-.1304	-.1104	-.1649			
105.000		-.0402	-.0213	-.1774	-.1749	-.1719				
110.000							-.1793			
120.000	-.3409	-.2407	-.0274	.0087	-.1009	-.1316	-.1763	-.1713		
135.000		.1733	-.0763	-.1301	-.1479	-.2039				
150.000	-.1027	-.1072	.1035	-.0113	-.1007	-.1004	-.2422			
160.000	-.1400		.0443		-.1493	-.1620	-.2393			
180.000	-.1124	-.0711	.0450	.2602						

ALPHAO(11) = 9.940 BETA(9) = -1.960

SECTION (11) CRITER PURCHASE		DEPENDENT VARIABLE C P													
V/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2350	.3010	.3770	.4000	.3760
PHI	.000	1.1170	.7308	.2449	.1100	.1704	.0000	-.0239	-.2367	-.1239	-.1733	-.0700	-.0132	.1074	.1614
50.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
60.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
70.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
80.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
90.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
100.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
120.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
140.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
160.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
180.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
190.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
200.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

SECTION (11) CRITER PURCHASE		DEPENDENT VARIABLE C P								
V/LB	.0000	.7200	.7910	.0020	.0000	.9600	1.0000	1.0010	1.0400	
PHI	.000	.1093	.0049	.2373	.1709	-.2001	-.2004	-.2709	-.2907	-.2939
40.000	.1973	.2340	.3427	-.1400	-.2747	-.2740	-.2719		-.2905	-.2200
70.000	-.0007	-.0001	-.0041	.0116	-.1291	-.0035	-.1134			
90.000	-.0439	-.0742	-.0711	-.0163	-.1701	-.1333	-.1923			
105.000		-.0009	-.1223	-.2124	-.1923	-.1924				
110.000							-.1054			

ORIGINAL PAGE IS OF POOR QUALITY



ALPHACO(11) = 9.040 BETAO (S) = -1.940

ARC11-716 1A14 CR-118-SIDES+ATT0 CR8. PURLAGE

CR1831)

SECTION (1) CRITER PURLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7000	.7810	.0200	.0400	.0600	.0800	.1100	.1900	.2000	.3010	.3790	.4990	.5790
PWT														
120.000	-.2895	-.2119	-.0401	.0037	-.2213	-.1699	-.1042	-.1676						
135.000		.2206	-.0223	-.1800	-.1612	-.2102								
150.000	-.1297	-.1010	.1230	.0096	-.2833	-.2026	-.2644							
165.000	-.1700		.0967		-.1966	-.2076	-.2379							
180.000	-.0216	-.0499	.0972	.2961										

ALPHACO(11) = 9.060 BETAO (M) = 0.040

SECTION (1) CRITER PURLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0200	.0410	.0700	.1120	.1990	.1670	.1790	.2000	.2920	.3010	.3790	.4990	.5790
PWT															
120.000	1.1670	.7001	.2903	.1292	.1777	.0000		-.2221		-.0995	-.0857	-.0342	.0149	.0903	.1369
135.000		.2022	.1311	.1497	-.7592			-.2644		-.1216					
150.000		.3976	.1680	.0641	.3223			-.2298		-.1332	-.1642	-.0301	-.0087	.0937	.1369
165.000			.3701	.1304	.0071	-.1974		-.1617			-.1610				
180.000			.2903	.1033	-.0493	-.1043		-.1322		-.2233	-.0636	-.1824	-.1044	-.0140	
195.000		.4172	.2734	.0634	-.0891	-.0684		-.1186		-.3003	-.7405	-.1833	-.1350	-.0160	
210.000			.2138	-.0011	-.0643	.0439		.0309		-.4173	-.7319	-.3948	-.2297	-.0794	
225.000										-.3700					
240.000										-.2445	-.6074	-.5309	-.1967	.0017	
255.000								.1237							
270.000									.1794						
285.000										-.1030	-.8639	-.5578	-.2174	.0231	
300.000															
315.000															
330.000	1.1200	.3033	.0790	.0321	.0096	.1214				-.7599	-.0297	-.5543	-.2201	.0326	
345.000															

SECTION (1) CRITER PURLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7000	.7810	.0200	.0400	.0600	.0800	.1100	.1990	.2000	.3010	.3790	.4990	.5790
PWT														
120.000	.1743	.1734	.1928	.0193	-.2906	-.2900	-.2771							
135.000		.1981	.1978	-.1422	-.2641	-.2650	-.2598			-.2543	-.2342			
150.000	-.2823	-.2637	-.2963	-.0229	-.1330	-.1039	-.1093			-.2321	-.2186			
165.000	-.2575	-.4099	-.2705	-.0401	-.1749	-.1493	-.1413							
180.000			-.1333	-.1820	-.2168	-.1930	-.1893							
195.000														
210.000	-.1976	-.1799	-.0738	-.1136	-.2313	-.1403	-.1794							
225.000														
240.000	-.1135	-.0782	.1473	.0417	-.3104	-.2448	-.2633							
255.000														
270.000		-.0797	-.0233		-.2175	-.2496	-.2116							
285.000														
300.000														

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MFC15-716 1A14 06-112-131825-A110 CRG. PURCHASE (061031)

ALPHANO(11) = 9.000 BETAO (7) = 2.070

SECTION (11)ORBITER FUELPLANE DEPENDENT VARIABLE CP

W/L	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	
PHI																				
00.000	1.1380	.7120	.2130	.1046	.594	.0000														
20.000																				
40.000																				
60.000																				
80.000																				
100.000																				
120.000																				
140.000																				
160.000																				
180.000																				
200.000																				
W/L	1.1380	.7120	.2130	.1046	.594	.0000														

ALPHANO(11) = 9.000 BETAO (8) = 4.110

SECTION (11)ORBITER FUELPLANE DEPENDENT VARIABLE CP

W/L	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	
PHI																					
00.000	1.1380	.7840	.1670	.0900	.1220	.0000															
20.000																					
40.000																					
60.000																					
80.000																					
100.000																					
120.000																					
140.000																					
160.000																					
180.000																					
200.000																					
W/L	1.1380	.7840	.1670	.0900	.1220	.0000															



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 01+112+512E5+AT10 CRB. PUSLAGE (R01031)

ALPHAO(11) = 9.990 BETA(8) = 4.110

SECTION (11)ORBITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PH1			.1102	-.0646	-1.408	-.0243		-.0434		-.5626	-.6399	-.3766	-.2008	-.0237	
120.000			.0876	-.0005	-.0649	.0481		.3630		-.7539	-1.0520	-.6032	-.5574	-.2278	.0206
140.000								.4942							
150.000								.6471							
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.1360	.2853	.0871	.0262	-.0136	.0937		.4841		-.6931	-.6111	-.3798	-.2720	.0022	

W/LB .6530 .7500 .7610 .8230 .6620 .9230 .9630 1.0020 1.0210 1.0400

PH1

.000	.1660	.1622	.1575	.0253	-.2677	-.2630	-.2719		-.2647	-.2358					
40.000	.1486	.1436	.1400	-.2773	-.4407	-.3277	-.2428		-.2505	-.2521					
70.000	-.3066	-.4676	-.3666	-.1543	-.2325	-.1396	-.1431								
90.000	-.2375	-.3173	-.2692	-.2052	-.1768	-.1622									
105.000		-.1197	-.3056	-.3361	-.2135	-.2056									
110.000															
120.000	-.1469	-.1668	-.0968	-.3085	-.3931	-.2143	-.2297								
135.000		.3406	-.0307	-.5131	-.2433	-.2691									
150.000	-.0804	-.0475	.1644	.0361	-.4820	-.3118	-.2845								
166.000	-.0829		.0605		-.3467	-.3660	-.2039								
180.000	-.1025	-.0660	.0490	.2729											

ALPHAO(11) = 9.990 BETA(9) = 6.130

SECTION (11)ORBITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PH1			.1239	.0436	.0649	.0000		-.2066		-.1341	-.1284	-.0916	-.0604	.0264	.0743
20.000			.1146	.0211	.0602	-.7960		-.2120		-.1325					
40.000			.1012	-.0276	-.0411	-.5559		-.2150		-.1972	-.2261	-.1628	-.0641	.0532	.1231
55.000			.0960	-.0875	-.1721	-.4324		-.2438		-.2206					
70.000			.0375	-.1090	-.2162	-.2942		-.2203		-.3007	-.7244	-.1873	-.1361	-.0560	
90.000	.0533	.0465	-.1490	-.2943	-.2241			-.2225		-.4219	-.8410	-.1864	-.1322	-.0264	
120.000		.0553	-.1277	-.1679	-.0579			-.0590		-.6232	-.6126	-.3925	-.2005	-.0113	
140.000										-.9014					
150.000		.0436	-.0468	-.1255	.0113					-.11010	-.6114	-.5657	-.2468	.0167	
151.000									-.0692						
156.000									.2931						
162.000															.0130

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ARC11-716 1A14 OI+T12-S12ES+AT10 CR8. FUSelage

(081831)

ALPHAO(11) = 9.900 BETA0 (9) = 6.130

SECTION (1) ORBITER FUSelage DEPENDENT VARIABLE CP

X/LB	.0020	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
165.000								.4556							
169.000							.9666								
174.000															
180.000	1.0870	.2399	.0755	.0037	-.0427	.0693		.4303							
X/LB	.6530	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.1364	.1460	.1577	.0696	-.2612	-.2795	-.2616								
40.000	1.426	.1353	.1526	-.3321	-.6992	-.3494	-.2575								
70.000	-.2920	-.4161	-.3330	-.1955	-.2666	-.1695	-.1906								
90.000	-.2230	-.3236	-.2467	-.2263	-.3324	-.1674	-.1639								
105.000															
110.000															
120.000	-.1363	-.1599	-.0667	-.3141	-.5906	-.2130	-.2236								
135.000															
150.000	-.0946	-.0529	.1332	-.0001	-.3034	-.4461	-.2047								
165.000	-.1124		.0566		-.3996	-.4642	-.2069								
180.000	-.1255	-.0622	.0195	.2254											

ALPHAO(11) = 10.050 BETA0 (10) = 6.170

SECTION (1) ORBITER FUSelage DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.0260	.5609	.0811	-.0065	.0236	.0000									
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
156.000															
162.000															
169.000															
174.000															
180.000	1.0260	.1746	.0933	-.0465	-.0837	.0466									
X/LB	.6530	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					



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(MB1031)

ARC11-716 1A14 01-112-312629-AT10 CRB. FUSELAGE

ALPHAO(11) = 10.000 BETA0 (10) = 0.170

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
0.000	.1046	.1122	.1335	.0404	-.3024	-.2966	-.2923		-.2601	-.2359
40.000	.1276	.1256	.1516	-.3616	-.3096	-.3333	-.2699		-.2937	-.2756
70.000	-.2775	-.3602	-.3245	-.2204	-.2741	-.1945	-.1769			
90.000	-.2264	-.2366	-.2359	-.2402	-.3557	-.2232	-.1866			
105.000			-.1804	-.3296	-.4234	-.2366	-.2075	-.2230		
110.000								-.2178		
120.000	-.1912	-.1992	-.0306	-.3296	-.3936	-.2543	-.2363			
135.000			.3192	-.0793	-.3631	-.3696	-.2737			
150.000	-.1446	-.0662	.0751	-.0763	-.5364	-.5426	-.2858			
165.000	-.1646		-.0033		-.4630	-.3061	-.2176			
180.000	-.1965	-.1104	-.0163	.1724						

ALPHAO(11) = 10.000 BETA0 (11) = 10.230

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3730	.4990	.5760	
PHI																
0.000	.9406	.5201	-.0036	-.0606	-.0396	.0000		-.2691		-.2195	-.2465	-.2090	-.1423	-.0510	-.0039	
20.000			-.0693	-.1465	-.0390	-.9260		-.2934		-.2626		-.3076	-.3508	-.2499	-.1355	.0035
40.000			-.1977	-.1931	-.1647	-.6983		-.3237		-.2815		-.2815				.0697
55.000			-.1629	-.2602	-.3196	-.9600		-.2615		-.3596	-.7207	-.2341	-.1715	-.0406		
70.000			-.1355	-.2662	-.3390	-.3965		-.2633		-.5114	-.6003	-.2264	-.1437	-.0612		
90.000		-.3033	-.1644	-.2911	-.4008	-.2915		-.2693		-.7900	-.6320	-.4641	-.7127	-.0338		
120.000			-.0665	-.2667	-.3461	-.1663		-.2522		-1.1430						
140.000			-.1263	-.1465	-.2244	-.0933			-.2663	-1.1740	-.6221	-.3932	-.2606	-.0693		
150.000								.1222								
156.000									-.1223							
162.000										-.6566	-.6409	-.6197	-.2675	-.1112		
165.000																
169.000																
174.000		.0691	-.0623	-.0627	-.1247	-.0049										
180.000	.6630	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480						
PHI																
0.000	.0670	.0626	.0636	.0567	-.3166	-.2935	-.2963									
40.000	.1005	.1035	.1119	-.4032	-.3200	-.3426	-.2946									
70.000	-.2750	-.3264	-.3122	-.2209	-.2942	-.1866	-.1662									
90.000	-.2260	-.2691	-.2486	-.2462	-.3194	-.2195	-.2049									
105.000			-.1623	-.3353	-.3366	-.2361	-.2290									
110.000																

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ARC11-716 1A14 01-712-312M3-AT10 CR6. FUSELAGE

(819551)

ALPHA(0111) = 10.000 BETA(0111) = 10.230

SECTION (11) CRIBTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PH1										
120.000	-1.082	-1.1575	.0362	-1.3019	-1.5576	-2.0999	-2.4865	-2.8176		
135.000			.2920	-1.464	-1.8142	-4.702	-3.086			
150.000	-1.034	-1.406	.0119	-1.700	-1.6334	-3.6576	-2.882			
165.000	-1.1948		-0.0225		-1.9407	-4.9531	-2.456			
180.000	-1.1895	-1.1272	-0.0313	.1306						



(R818381)

ARC11-716 1A14 01-712-SIEMENS-AT10 CRG. FUSELAGE

ALPHAO (1) = -10.220 BETA/O (2) = -7.890

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3750	.4990	.5760
PHI															
.000	1.2760	.6954	.3542	.3446	.4596	.0000		-.1376		-.0584	-.1116	-.2227	-.1990	-.0707	.0399
20.000			.4145	.3446	.4257	-.1093		-.0902		-.0056					
40.000			.6021	.4075	.3634	.1626		-.0399		-.2725	-.2178	-.0481	-.1044	-.0966	.1963
55.000			.7541	.5404	.4406	.2747		.1123		.0127					
70.000			.8372	.6117	.4826	.3799		.2062		.0662	-.3690	-.1162	-.0313	.0362	
90.000		1.2680	.8629	.6613	.5137	.4303		.2339		.0395	-.2923	-.1946	-.0318	.0265	
120.000			.8627	.6946	.6137	.5945		.4865		.124E	-.2020	-.4722	-.0494	-.0174	
140.000										.1832					
160.000										.1464	-.4841	-.2531	-.0416	-.0761	
174.000									.6199						
180.000															
196.000									.6653						
199.000															
174.000															
180.000															
X/LB	.6550	.7500	.7610	.8230	.8620	.9250	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0838	.1835	.3196	.4092	-.4613	-.4352	-.3902								
40.000	.1399	.2051	.3080	.0987	-.3606	-.4075	-.3669								
70.000	.1335	.1362	.2699	.3353	.2019	.2435	.1628								
90.000	.1440	.1912	.3228	.3356	.1969	.2147	.1474								
105.000			.4077	.2920	.1612	.1765	.1196								
110.000															
120.000	.1127	.2607	.5604	.3353	.1702	.1661	.1309								
135.000	.0596	.3624	.7091	.6260	.2497	.2311	.1267								
150.000	.0214		.5191	.4260	.3467	.2921	-.0145								
165.000			.4848		.4357	.2946	-.1421								
180.000	-.0104	.2940	.4897	.6161											
PHI															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
PHI															
.000	1.3040	.6822	.3753	.3433	.4746	.0000		-.1184		-.0759	-.1191	-.2070	-.1702	-.0484	.0489
20.000			.4291	.3636	.4341	-.2128		.0106		-.0754					
40.000			.5734	.4011	.3756	.1047		-.0066		-.2964	-.2013	-.1252	-.1099	-.0976	.1364
55.000			.6895	.4950	.3961	.2171		.0649		-.0208					
70.000			.7720	.5329	.4236	.3601		.1436		.0236	-.6246	-.1811	-.0716	-.0087	
90.000								.1688		-.0146	-.3375	-.3124	-.0716	-.0185	

ALPHAO (1) = -10.220 BETA/O (3) = -5.900

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3750	.4990	.5760
PHI															
.000	1.3040	.6822	.3753	.3433	.4746	.0000		-.1184		-.0759	-.1191	-.2070	-.1702	-.0484	.0489
20.000			.4291	.3636	.4341	-.2128		.0106		-.0754					
40.000			.5734	.4011	.3756	.1047		-.0066		-.2964	-.2013	-.1252	-.1099	-.0976	.1364
55.000			.6895	.4950	.3961	.2171		.0649		-.0208					
70.000			.7720	.5329	.4236	.3601		.1436		.0236	-.6246	-.1811	-.0716	-.0087	
90.000								.1688		-.0146	-.3375	-.3124	-.0716	-.0185	





MC11-716 1A14 04-112-S12E3-A1710 CRG. PUSBLAGE (R01832)

ALPHAO(1) = -10.250 BETAO (3) = -5.900

SECTION (1) ORBITER PUSBLAGE		DEPENDENT VARIABLE CP														
W/LB		.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PMT																
120.000			.6368	.6490	.5684	.5548	.4005		.0709	-.2482	-.5144	-.0716	-.0515			
140.000									.1549							
150.000			.7992	.6790	.6101	.6287			.0434	-.4787	-.2628	-.1170	-.0848			
151.000									.3799							
198.000							.6364									
165.000																
169.000																
174.000							.9124									
160.000		1.3040	.9741	.7139	.6314	.5676	.6025	1.0270	.7926							
W/LB		.6630	.7900	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					

SECTION (1) ORBITER PUSBLAGE		DEPENDENT VARIABLE CP														
W/LB		.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PMT																
40.000		.1005	.1676	.2645	.3302	-.4063	-.4054	-.3825								
70.000		.1207	.1754	.4799	.0443	-.3703	-.3929	-.3764								
90.000		.1474	.1987	.2333	.3049	.1469	.2021	.1316								
105.000		.1587	.2085	.3013	.3000	.1324	.1727	.1178								
110.000				.3764	.2443	.1205	.1307	.0927								
120.000		.1491	.3022	.4905	.2676	.1396	.1263	.0660								
135.000				.7398	.4351	.2014	.1661	.0736								
150.000		.0899	.3496	.5625	.4744	.2794	.2359	-.0613								
165.000		.0791	.5209	.5209	.3677	.2470	-.1742									
160.000		.0623	.3206	.3199	.6438											

ALPHAO(1) = -10.250 BETAO (4) = -3.930

SECTION (1) ORBITER PUSBLAGE		DEPENDENT VARIABLE CP														
W/LB		.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PMT																
20.000		1.3250	.6625	.3638	.3765	.4610	.0000									
40.000				.4239	.3767	.4332	-.3086									
50.000				.5449	.3672	.3643	.0316									
70.000				.6300	.4301	.3651	.1675									
90.000				.7141	.4969	.3746	.2704									
100.000		.9266	.7419	.5408	.3990	.2953	.1099									
120.000			.7976	.6066	.3290	.5137	.3603									
140.000																
150.000			.7668	.6760	.5999	.6120										
151.000																
154.000							.6344									
162.000																



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ARC11-716 1A14 06-1129-S1825-AT110 CRB. FUELAGE (061832)

ALPHA(1) = -10.230 BETA(1) = -3.930

SECTION (1) CRIBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2070	.2320	.3010	.3790	.4990	.5760
PHI															
165.000															
169.000															
174.000															
180.000															
X/LB	.6830	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
165.000															
169.000															
174.000															
180.000															

ALPHA(1) = -10.230 BETA(1) = -1.940

SECTION (1) CRIBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2070	.2320	.3010	.3790	.4990	.5760
PHI															
25.000															
40.000															
55.000															
70.000															
90.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHA(1) = -10.230 BETA(1) = -1.940

SECTION (1) CRIBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2070	.2320	.3010	.3790	.4990	.5760
PHI															
25.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
156.000															
162.000															
169.000															
174.000															
180.000															

ALPHA(1) = -10.230 BETA(1) = -1.940

SECTION (1) CRIBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2070	.2320	.3010	.3790	.4990	.5760
PHI															
25.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
156.000															
162.000															
169.000															
174.000															
180.000															



ARC11-716 1A14 CR-118-S12MS-AT10 CRB. FUSELAGE (R161032)

ALPHAX (1) = -10.830 BETA0 (5) = -1.940

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP									
X/LB	.6530	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PMT										
.000	.0750	.1254	.2457	.2619	-.2615	-.4114	-.5445		-.3296	-.5316
40.000	.0693	.1247	.3401	-.0630	-.3541	-.3730	-.3481		-.3422	-.3267
70.000	.1706	.1772	.2209	.2633	.0533	.1192	.0713			
90.000	.1611	.2307	.2480	.2395	.0426	.0764	.0413			
105.000			.3056	.1699	.0011	.0379	.0162			
110.000								-.2203		
120.000	.1854	.3036	.3476	.1097	-.0446	.0175	-.0420	-.1375		
135.000			.7601	.4130	-.0106	.0775	-.0576			
150.000	.1795	.3769	.6266	.5461	.0964	.1352	-.1492			
165.000	.1786		.5694		.1969	.1399	-.2400			
180.000	.1764	.3737	.5959	.7015						

ALPHAX (1) = -10.940 BETA0 (6) = .030

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP														
X/LB	.0000	.0060	.0220	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PMT															
.000	1.5300	.6626	.3632	.3635	.4794	.0000		-.1096	-.0711	-.1741	-.2403	-.2261	-.0667	.0309	
20.000		.4051	.3643	.4332	-.4934			-.2060	-.0669	-.1637	-.1903	-.2030	-.2236	-.0692	.0661
40.000		.4731	.3530	.3320	-.0681			-.2467	-.1632	-.1852					
55.000		.5396	.3641	.2636	.0743			-.0362	-.1777	-.2643	-.3196	-.1396	-.0769		
70.000		.3695	.3623	.2706	.1762			.0122	-.1777	-.2643	-.3196	-.1396	-.0769		
90.000		.7982	.6191	.4163	.2644	.2020		-.0093	-.2224	-.4917	-.4676	-.1406	-.0665		
120.000			.6633	.5079	.4247	.4126		.2357	-.1911	-.4071	-.6624	-.2560	-.1445		
140.000									-.2876						
150.000			.7412	.6426	.5396	.3636			-.3966	-.4692	-.2172	-.2310	-.0506		
151.000								.4462							
156.000								-.7463							
162.000															
165.000															
166.000															
174.000															
180.000	1.5300	.6610	.7543	.6632	.6107	.6274	.9976		-.4107	-.3695	-.1964	-.2166	-.0667		
X/LB	.6530	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PMT															
.000	.0400	.1122	.1396	.0647	-.3665	-.3904	-.3576		-.3249	-.3441					
40.000	.0333	.1124	.2410	-.1065	-.3539	-.3326	-.3393		-.3326	-.3076					
70.000	.1760	.1916	.2060	.2504	.0109	.0666	.0392								
90.000	.1637	.2362	.2432	.2104	.0091	.0377	.0060								
105.000			.2963	.1472	-.0376	-.0090	-.0225								
110.000								-.2497							

(R01032)

ARC11-716 IAI14 OR-TIER-SIZES-AF10 CRG. PURLAGE

ALPHAX (1) = -10.240 BETAO (6) = .030

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7610	.8230	.9400	.9830	.9830	.9430	1.0020	1.0210	1.0480
PWT											
120.000	.1904	.2964	.2908	.0243	-.1238	-.0119	-.1001	-.1769			
135.000		.7616		.3764	-.1330	.0239	-.1026				
150.000	.1911	.3761	.6436	.5747	.0080	.0447	-.1766				
165.000	.1909		.5793		.1233	.0436	-.2790				
180.000	.1909	.3761	.5916	.7107							

ALPHAX (1) = -10.230 BETAO (7) = 2.040

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1360	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760	
PWT																
.000	1.3230	.6620	.3495	.3705	.4506	.0000		-.1014		-.0707	-.1914	-.2744	-.2708	-.0099	.0132	
20.000		.3760	.4087	.3211				-.1321		-.0903	-.1920	-.2018	-.2436	-.2641	-.0682	.0442
40.000		.4307	.3664	.3079	-.1197			-.2703		-.1992	-.1992					
55.000		.4625	.3291	.2470	.0394			-.0631		-.2114	-.5720	-.3937	-.1430	-.0679		
70.000		.5236	.3297	.2239	-.1497			-.0913		-.2372	-.3264	-.4936	-.1637	-.0690		
90.000	.6760	.5591	.3969	.2500	.1534			-.0549		-.2608	-.4673	-.6574	-.3332	-.1614		
120.070		.6899	.4541	.3609	.3423			-.1600		-.4031	-.4334	-.4766	-.2146	-.2364	-.1010	
140.000		.7096	.6137	.5235	.5324					-.3609						
150.000								.6941								
171.000										.5035						
192.000																
195.000																
198.000																
174.000	1.3230	.6626	.7540	.6633	.6069	.6204		.6337								
160.000	.6890	.7500	.7610	.6230	.6620	.6230	.9480	1.0020	1.0210	1.0480						

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

W/LB	.0799	.1115	.1391	.0765	-.3511	-.3364	-.3460
PWT							
40.000	.0460	.0985	.1176	-.2169	-.3768	-.3485	-.3636
70.000	.1836	.1945	.1672	.2441	-.0194	.0239	.0062
90.000	.1834	.2320	.2143	.1901	-.0239	-.0026	-.0290
105.000			.2480	.1220	-.0724	-.0545	-.0644
110.000	.1877	.2632	.1760	-.0062	-.1902	-.0687	-.1442
120.000			.7236	.3008	-.2343	-.1373	-.1499
135.000	.1691	.3646	.6488	.5994	-.0480	-.6465	-.2399
165.000	.1821	.3613	.3613	.0797	-.0340	-.3230	
190.000	.1636	.3731	.3573	.7148			

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ARC11-716 1A14 04-112-312M-AY10 CRB. PUSLAME (081032)

ALPHAX I) = -10.200 BETA0 (0) = 4.000

SECTION (1) ORBITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1870	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PH1															
20.000	1.3040	0.6482	0.3379	0.3543	0.2937	0.0000	-0.1112	-0.0877	-0.2742	-0.3176	-0.2935	-0.1120	-0.1120	-0.0161	
40.000			3.4017	3.941	3.793	-0.3745	-0.1410	-0.0976	-0.2444	-0.3344	-0.2935	-0.0616	0.0046		
60.000			3.1751	2.7930	2.790	-1.1741	-0.2822	-0.1244	-0.2449	-0.3344	-0.2935	-0.0616	0.0046		
80.000			4.161	2.716	2.084	0.0046	-0.1019	-0.2103	-0.2484	-0.4032	-0.1633	-0.0685			
100.000			4.988	2.716	1.760	0.1049	-0.1379	-0.2484	-0.3628	-0.5535	-0.1934	-0.0779			
120.000		5.794	4.853	2.901	1.773	0.1032	-0.1076	-0.3325	-0.3034	-0.7206	-0.4632	-0.1813			
140.000			5.887	3.806	2.973	0.3030	-0.1104	-0.4658	-0.4611	-0.4860	-0.2306	-0.2903	-0.1414		
160.000			6.821	3.901	4.931	0.3035	0.3273	-0.4611	-0.4860	-0.2306	-0.2903	-0.1414			
180.000							0.6982	-0.4197	-0.4870	-0.1881	-0.2410	-0.1357			
196.000							0.6222	-0.4536	-0.4197	-0.4870	-0.1881	-0.2410	-0.1357		
162.000							0.6222	-0.4536	-0.4197	-0.4870	-0.1881	-0.2410	-0.1357		
166.000							0.6222	-0.4536	-0.4197	-0.4870	-0.1881	-0.2410	-0.1357		
174.000							0.6222	-0.4536	-0.4197	-0.4870	-0.1881	-0.2410	-0.1357		
190.000	1.3040	0.6472	0.7457	0.6531	0.9978	0.8120	0.9359	0.9307	-0.3108	-0.3913	-0.1665	-0.1936	-0.1236		
W/LB	0.6330	0.7900	0.7610	0.6230	0.6620	0.9230	0.9630	1.0020	1.0210	1.0460					

PH1

40.000	0.6472	0.6969	0.1373	0.2637	-0.3673	-0.4069	-0.3930	-0.3249	-0.3305						
60.000	0.0117	0.0424	0.1085	-0.2963	-0.3930	-0.3917	-0.3633	-0.3176	-0.3012						
70.000	0.1836	0.1636	0.649	0.2399	-0.0616	-0.0076	-0.0226								
90.000	0.1392	0.2012	0.1707	0.061	-0.0655	-0.0455	-0.0373								
105.000			0.2342	0.0936	-0.1122	-0.0999	-0.0962								
110.000								-0.3000							
120.000	0.1734	0.2678	0.0637	-0.1837	-0.2396	-0.1172	-0.1936	-0.2634							
135.000			0.6932	0.2392	-0.3271	-0.3114	-0.2242								
150.000	0.1821	0.3486	0.6402	0.6173	-0.0624	-0.1434	-0.3176								
166.000	0.1547		0.9880		0.0396	-0.1190	-0.3991								
180.000	0.1955	0.3537	0.3378	0.6821											

ALPHAX I) = -10.200 BETA0 (0) = 6.000

SECTION (1) ORBITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1870	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PH1															
20.000	1.2780	0.6211	0.3068	0.3346	0.2893	0.0000	-0.1425	-0.1602	-0.3282	-0.3454	-0.2916	-0.1372	-0.0716		
40.000			2.991	3.037	3.799	-0.6223	-0.1347	-0.1237	-0.1346	-0.2737	-0.3721	-0.3183	-0.1197	-0.0691	
60.000			3.135	2.670	2.701	-0.2690	-0.2223	-0.1346	-0.2737	-0.3721	-0.3183	-0.1197	-0.0691		
80.000			3.919	2.331	1.899	-0.0381	-0.1244	-0.2089	-0.2484	-0.4032	-0.1633	-0.0685			
100.000			3.898	2.192	1.364	0.0711	-0.1721	-0.2744	-0.6297	-0.4394	-0.1693	-0.0617			
120.000			4.693	4.137	2.500	0.0660	-0.1327	-0.4115	-0.3979	-0.3781	-0.2099	-0.0811			

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ARC11-716 1A14 CR-712-S10ES-4110 CRG. PURCHASE

(R018382)

ALPHA(1) = -10.250 BETA(10) = 0.120

SECTION (1) CRITTER PURCHASE DEPOSIT VARIABLE C'

W/L	.0000	.0000	.0200	.0400	.0700	.1100	.1900	.1070	.1700	.2050	.2010	.3700	.4900	.5700
PHI														
100.000								.7436						
100.000														
174.000						.0008								
190.000	1.0000	0.7000	0.0020	0.0002	0.5541	0.7007								
W/L	.0000	.7000	.7010	.0200	.0000	.0000	.0000	1.0000	1.0010	1.0400				

PHI														
100.000														
100.000														
174.000														
190.000	1.0000	0.7000	0.0020	0.0002	0.5541	0.7007								
W/L	.0000	.7000	.7010	.0200	.0000	.0000	.0000	1.0000	1.0010	1.0400				

PHI														
100.000														
100.000														
174.000														
190.000	1.0000	0.7000	0.0020	0.0002	0.5541	0.7007								
W/L	.0000	.7000	.7010	.0200	.0000	.0000	.0000	1.0000	1.0010	1.0400				

ALPHA(1) = -10.250 BETA(11) = 10.110

SECTION (1) CRITTER PURCHASE DEPOSIT VARIABLE C'

W/L	.0000	.0000	.0200	.0400	.0700	.1100	.1900	.1070	.1700	.2050	.2010	.3700	.4900	.5700
PHI														
100.000														
100.000														
174.000														
190.000	1.1000	0.5000	0.0000	0.0000	0.0000	0.0000								
W/L	.0000	.0000	.0200	.0400	.0700	.1100	.1900	.1070	.1700	.2050	.2010	.3700	.4900	.5700

PHI														
100.000														
100.000														
174.000														
190.000	1.1000	0.5000	0.0000	0.0000	0.0000	0.0000								
W/L	.0000	.0000	.0200	.0400	.0700	.1100	.1900	.1070	.1700	.2050	.2010	.3700	.4900	.5700

0816321

ARC11-716 1A14 CR-712-31823-AT16 CR8. PURLAGE

ALPHAO1 11 = -10.250 BETAO (111) = 10.110

SECTION 1 11-CRITER PURLAGE DEPENDOR VARIABLE CP

W/LB	.0000	.7500	.7610	.0200	.0000	.0200	.0200	.0200	.0200	1.0000	1.0010	1.0400
PHI												
.000	-.1072	-.0006	.0004	.0000	-.3402	-.4123	-.4100				-.3606	-.3413
20.000	-.0400	.0044	.0764	-.4043	-.5906	-.4886	-.3933				-.4070	-.3976
40.000	1.123	1.342	.0000	.0000	-.1470	-.0037	-.1223					
60.000	.0000	.1105	.1131	.1365	-.2110	-.1730	-.1712					
80.000		.1049	.0400	-.2315	-.1917	-.2005						
100.000							-.2843					
120.000	.1091	.1505	-.1114	-.3944	-.4577	-.3437	-.3718					
140.000		.4790	-.0000	-.3734	-.6109	-.0633						
160.000	-.0000	.3403	.3781	.0000	-.1915	-.3163	-.4645					
180.000	-.0016	.9034		-.0706	-.2309	-.3739						
200.000	-.0775	.2403	.4473	.3008								

ALPHAO1 20 = -0.100 BETAO (11) = -0.970

SECTION 1 11-CRITER PURLAGE DEPENDOR VARIABLE CP

W/LB	.0000	.0700	.0200	.0470	.0700	.1120	.1200	.1070	.1700	.2050	.2500	.3010	.3700	.4000	.3700
PHI															
.000	1.2000	.0004	.3101	.3049	.4210	.0000		-.1982	-.0234	-.2044	-.2079	-.2040	-.0909	-.0455	
20.000		.4043	.3416	.3904	-.0128			-.1949	.1083						
40.000		.0043	.0000	.0000	.2107			-.0003	-.2017	-.1400	-.0303	-.0001	-.1037	-.1679	
60.000		.8123	.0075	.0044	.3447			.1000	.0519						
80.000		.0041	.0071	.0000	-.0021			.2342	.1046	-.3305	-.0332	-.0403	.0216		
100.000	1.1000	.5003	.7037	.3774	.4703			.2053	.0770	-.2313	-.1440	-.0009	.0159		
120.000		.0039	.0012	.0102	.3943			.3104	.1684	-.1703	-.4309	-.0009	-.0301		
140.000		.7434	.0001	.3704	.0014			.0379	.1497	-.2034	-.3039	-.1314	-.1209		
160.000								.0006							
180.000								.0006							
200.000									-.2776	-.4573	-.2979	-.1099	-.1004		

PHI

.000	.1203	.2410	.3377	.4137	-.4711	-.4093	-.3774								
20.000	.1773	.2903	.3533	.1306	-.3403	-.4000	-.3787								
40.000	.0079	-.0716	.2131	.3339	-.2771	.2040	.1745								
60.000	.1009	-.0022	.0010	.3309	.0021	.2300	.1022								
80.000			.3000	.2700	.1701	.1022	.1316								
100.000															



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ARC11-716 1A14 01+T12+S12N25+AT10 CRB. FUSELAGE (R01632)

ALPHA0(2) = -0.19J BETA0 (1) = -9.970

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP									
X/LB		.6530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI											
120.000	.0126	.0437	.5136	.3762	.1660	.2149	.1532	-.0455			
135.000		.6064	.3991	.2522	.2726	.1479					
150.000	-.0045	.2293	.4229	.3540	.3692	.3133	.0083				
165.000	-.0783		.4107	.4756	.3156	-.1320					
180.000	-.0959	.2254	.4296	.5164							

ALPHA0(2) = -8.800 BETA0 (2) = -7.960

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2920	.3010	.3790	.4990	.3760
PHI																
.000	1.2680	.0614	.3476	.3266	.4471	.0000			-.1430		-.0631	-.1203	-.2327	-.2074	-.0793	.0540
20.000		.4127	.3983	.4155	-.1153				-.1223		.0112					
40.000		.6056	.4012	.3763	.1961				-.0447		-.2678	-.1829	-.0944	-.1071	-.1132	.1744
55.000		.7540	.5375	.4765	.2621				.0116		.0116					
70.000		.8311	.6032	.4762	.3378				.0650		.0650	-.3966	-.1168	-.0468	-.0060	
90.000	1.0570		.8487	.6427	.4979	.4214			.0389		.0389	-.3032	-.2033	-.0403	-.0106	
120.000		.8307	.6566	.5773	.5628	.4614			.1134		.1134	-.2173	-.4987	-.0586	-.0371	
140.000									.1360		.1360					
150.000		.7569	.6407	.5756	.6007				.1198		.1198	-.5317	-.3091	-.1320	-.1194	
151.000									.6046							
156.000																
162.000									.6716							
165.000																
169.000																
174.000																
180.000	1.2680	.9176	.6397	.5636	.5264	.5304										

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP									
X/LB		.6530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI											
.000	.1186	.2046	.3250	.4036	-.4367	-.4065	-.3748				
40.000	.1542	.2642	.5545	.1043	-.3294	-.3699	-.3730				
70.000	.0933	-.0317	.2275	.3183	.1709	.2321	.1560				
90.000	.1056	.0402	.2837	.3186	.1513	.2012	.1417				
105.000			.3762	.2637	.1327	.1632	.1136				
110.000											
120.000	.0799	.1632	.5135	.3341	.1954	.1742	.1245				
135.000			.6627	.3655	.2196	.2309	.1125				
150.000	.0181	.2762	.4797	.3655	.3139	.2685	-.0285				
165.000	-.0115		.4549	.4092	.2690	-.1587					
180.000	-.0390	.2709	.4662	.5620							

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ARC11-716 1A14 01-112-S12629-AT10 CRG. FUSELAGE (R01832)

ALPHAO (2) = -8.210 BETA0 (3) = -5.980

SECTION (1) CRGITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.2970	.6806	3.465	3.467	.4569	.0000	-.1294	-.0690	-.1307	-.1955	-.1808	-.0512	.0577	
20.000			.4254	3.470	4.223	-.2213	-.0004	-.0966	-.0966						
40.000			.5775	3.667	3.660	.0939	-.0436	-.2965	-.2965	-.1899	-.1269	-.1805	-.1169	.1485	
55.000			.6996	4.860	3.690	.2154	.0673	-.0230	-.0230						
70.000			.7642	5.399	.4104	.2965	.1470	.0189	.0189	-.4279	-.1838	-.1215	-.0332		
90.000		.9643	.7641	5.766	.4361	.3622	.1790	-.0217	-.0217	-.3436	-.2934	-.1190	-.0404		
120.000			.8094	.6140	.5374	.5291	.4087	.0437	.0437	-.2619	-.3365	-.1163	-.0727		
140.000								.0932	.0932						
150.000			.7229	.6354	.5649	.5921		-.0148	-.0148	-.2253	-.3182	-.1537	-.1218		
151.000							.9664								
156.000							.8439								
162.000							.6253			-.4319	-.4124	-.3102	-.1891	-.1674	
165.000							.6944								
169.000										-.5856	-.4060	-.2569	-.2220	-.1936	
174.000							1.0110								
180.000	1.2970	.9309	.6664	.5830	.5430	.5646	.7660								
X/LB	.6630	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.000	1.1179	1.064	2.909	3.308	-.3639	-.3908	-.3623	-.3307	-.3399					
40.000			.2305	.4965	.0766	-.3996	-.3611	-.3639	-.3312	-.3440					
70.000		.0990	.0266	.2220	.2910	.0937	1.728	.1197							
90.000		.1126	.1188	.2719	.2920	.0710	1.408	.1051							
103.000			.3329	.2395	.0331	.0932	.0760								
110.000								-.1906							
120.000		.0942	.2427	.4628	.2700	.0966	.0663	.0729	-.0602						
135.000				.6831	.4078	1.723	1.630	.0471							
150.000		.0590	.3116	.3220	.4368	.2414	.2095	-.0646							
165.000		.0368		.4699		.3266	.2154	-.1939							
180.000	.0344	.3004		.6910	.6064										

ALPHAO (2) = -8.220 BETA0 (4) = -1.980

SECTION (1) CRGITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.3220	.7107	.3675	.3720	.4749	.0000	-.1193	-.0777	-.1325	-.2212	-.2040	-.0762	.0314	
20.000			.4196	.3723	.4307	-.4011	-.1797	-.0361	-.0361						
40.000			.5157	.3659	.3453	-.0096	-.1966	-.1942	-.1942	-.2049	-.1744	-.2136	-.0866	.1036	
55.000			.5932	.4020	.3160	.1161	-.0367	-.0756	-.0756						
70.000			.6423	.4335	.3182	.2122	.0681	-.1809	-.1809	-.4774	-.2637	-.1638	-.0872		
90.000		.6345	.6675	.4655	.3234	.2391	.0772	-.1662	-.1662	-.4028	-.4144	-.1476	-.0860		



ARC11-716 IA14 ORBITER PUSLAGE (R81032)

ALPHA(2) = -0.220 BETA(4) = -1.980

SECTION (1) ORBITER PUSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
120.000			.7209	.5346	.4549	.4460		.3082		-.1036	-.3593	-.6162	-.1682	-.1025	
140.000										-.1273					
150.000			.7257	.6199	.5402	.5616				-.3590	-.4609	-.3105	-.1917	-.0533	
151.000								.7775							
156.000									.5705						
162.000										-.4224	-.3922	-.2239	-.2023	-.0964	
165.000															
169.000															
174.000															
180.000	1.3220	.9428	.7048	.6189	.5684	.5917	1.0090			-.4936	-.4972	-.1666	-.2255	-.0490	
X/LB	.6530	.7300	.7610	.7230	.6820	.9230	.9630	1.0020	1.0480						

ALPHA(2) = -0.150 BETA(5) = .010

SECTION (1) ORBITER PUSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
20.000			.3787	.3678	.4651	.0000		-.1143		-.0686	-.1934	-.2231	-.2154	-.0960	.0459
40.000			.4031	.3662	.4224	-.4814		-.2025		-.1676	-.1993	-.1977	-.2154	-.0560	.0631
55.000			.4729	.3432	.3236	-.0740		-.2492		-.1924					
70.000			.5351	.3541	.2755	.0673		-.0343		-.1691	-.3137	-.3107	-.1601	-.0782	
90.000			.5799	.3714	.2989	.1700		-.0199		-.2119	-.4896	-.4980	-.1677	-.0877	
120.000	1.3200	.7036	.7461	.6029	.4040	.2724	.1963	-.0030		-.1929	-.4043	-.6686	-.2310	-.1320	
140.000			.6886	.4617	.4017	.3983		.2405		-.2855					
150.000			.6997	.6016	.5228	.5577		-.4129		-.5035	-.2677	-.2426	-.1001		
151.000									.4336						
156.000								.7567							
162.000															

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ARC11-716 1A14 CR-T18-S18E2-AT10 CR6. FUSLAGE (RB1852)

ALPHAO (E) = -0.190 BETA0 (S) = .010

SECTION (1) ORBITER FUSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
169.250															
169.000															
174.000															
180.000	1.3600	.9592	.7089	.6222	.5678	.5919	.9776	.6327							
X/LB	.6530	.7500	.7810	.8250	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0964	.1296	.1968	.0793	-.3478	-.3665	-.3407								
40.000	.0709	.1226	.2481	-.0999	-.3371	-.3466	-.3412								
70.000	.1219	.1459	.1821	.2314	-.0099	.0099	-.0021								
90.000	.1378	.1939	.2206	.2027	-.0195	-.0256	-.0378								
105.000		.2712	.1266	-.0650	-.0540	-.0630									
110.000															
120.000	.1415	.2693	.2549	.0415	-.1401	-.0488	-.1273								
135.000			.7113	.3731	-.1396	-.0186	-.1093								
150.000	.1308	.3463	.6042	.5481	-.0188	-.0014	-.1948								
165.000	.1283		.5334		.1009	-.0024	-.8321								
190.000	.1305	.3518	.5360	.6823											

ALPHAO (E) = -0.190 BETA0 (S) = 2.040

SECTION (1) ORBITER FUSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000	.6992														
120.000	.6812	.4267	.3371	.3490											
140.000															
150.000	.6680	.5734	.4647	.5034											
151.000															
165.000															
165.000															
174.000															
180.000	1.3170	.9198	.7068	.6169	.5049	.5866									
X/LB	.6530	.7500	.7810	.8250	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
165.000															
165.000															
174.000															
180.000															



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(MC1832)

ARC11-716 1A14 0A+T1E+S12E9+AT10 CRB. FUSELAGE

ALPHA (2) = -0.240 BETA (7) = 4.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7610	.6230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.1536	.2490	.0889	-.1517	-.2636	-.1355	-.2139	-.2199	-.2655	
135.000		.6364	.2687	-.3262	-.2930	-.2333				
150.000	.1361	.3223	.6034	-.5924	-.1036	-.1710	-.3266			
165.000	.1315		.3444	.0196	-.1477	-.3263				
180.000	.1237	.3277	.5173	.6532						

ALPHA (2) = -6.220 BETA (8) = 6.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5790	
PHI																
.000	1.2750	.6261	.2873	.3136	.4116	.0000		-.1515		-.1637	-.3202	-.3400	-.2546	-.1294	-.0639	
20.000		.2847	.2780	.3530	-.6294			-.1446		-.1331	-.1499	-.2678	-.3740	-.3190	-.1095	-.0234
40.000		.3040	.2464	.2510	-.2792			-.2269		-.2037	-.2728	-.6243	-.4475	-.2044	-.0717	
55.000		.3405	.2145	.1637	-.0463			-.1508		-.2728	-.6243	-.4475	-.2044	-.0717		
70.000		.3770	.2001	.1193	-.0563			-.1663		-.3904	-.6040	-.5734	-.2326	-.0735		
90.000		.4487	.4033	.2161	.1063	.0611		-.1302		-.3999	-.5361	-.7403	-.4846	-.1602		
120.000		.4776	.3024	.2036	.2367			.0484		-.5506	-.4679	-.5993	-.2776	-.3370	-.1982	
140.000		.5713	.4936	.4102	.6226			.2461								
150.000								.5634								
156.000																
162.000																
165.000																
169.000																
171.000																
180.000	1.2750	.6065	.6742	.3632	.3319	.5590		.6974								
X/LB	.6230	.7500	.7610	.6230	.8620	.9230	.9630	1.0020	1.0210	1.0480						

X/LB	.0095	.0725	.1356	.1101	-.3549	-.3606	-.3722									
PHI																
.000	.0095	.0725	.1356	.1101	-.3549	-.3606	-.3722									
40.000	-.0005	.0455	.1209	-.3668	-.3396	-.4886	-.3675									
70.000	.1360	.1325	.1250	.2207	-.0563	-.0511	-.0818									
90.000	.1149	.1698	.1333	.1406	-.1165	-.1157	-.1176									
105.000			.2030	.0796	-.1603	-.1516	-.1533									
110.000																
120.000	.1321	.2377	.0036	-.2502	-.3222	-.1647	-.2617	-.3007								
135.000			.5727	.1895	-.4245	-.4170	-.3227									
150.000	.0604	.2943	.5666	.6116	-.1427	-.2314	-.3663									
165.000	.0561		.5286		-.0210	-.1936	-.3427									
180.000	.0406	.2943	.4912	.6301												



(R01032)

ARC11-716 IA14 01+Y12+S12N25+AT10 ORB. FUSELAGE

ALPHAO(2) = -8.230 BETAO (9) = 8.000

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

K/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2550	.9668	.2306	.2977	.4039	.0000									
20.000		.2315	.2567	.3720	-.7045										
40.000		.2346	.2161	.2490	-.3615										
55.000		.2678	.1755	.1475	-.0975										
70.000		.3056	.1511	.0944	.0247										
90.000		.3332	.3255	.1906	.0577	.0198									
120.000			.3993	.1760	.1421	.1733									
140.000				.4979	.4488	.3779									
150.000															
151.000									.1769						
156.000									.3061						
162.000									.3442						
165.000															
169.000															
174.000															
180.000	1.2350	.8690	.6495	.9602	.5111	.5401									
K/LB	.6930	.7500	.7810	.8250	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI															
.000	-.0347	.0403	.0997	.1076	-.2996	-.3961	-.3879								
40.000	-.0145	.0374	.1285	-.4071	-.5468	-.4753	-.3084								
70.000	.1329	.1447	.0978	.2229	-.1310	-.1298	-.1365								
90.000	.0637	.1347	.1043	.1378	-.1695	-.1641	-.1687								
105.000		.1968	.0824	-.2007	-.1744	-.1923									
110.000															
120.000	.1174	.2306	-.0459	-.3191	-.3714	-.2497	-.3318								
135.000			.9063	.0953	-.4967	-.5358	-.5414								
150.000	.0227	.2685	.5694	.6327	-.1727	-.2941	-.4348								
165.000	-.0120		.3104		-.0324	-.2598	-.3598								
180.000	-.0359	.2623	.4642	.6062											

ALPHAO(2) = -8.240 BETAO (10) = 10.100

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

K/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1680	.5419	.2029	.2979	.3612	.0000									
20.000		.1726	.2231	.3612	-.7606										
40.000		.1667	.1763	.2338	-.4500										
55.000		.2030	.1425	.1303	-.1405										
70.000		.2411	.1081	.0641	-.0131										
90.000		.2090	.2604	.0932	.0005	-.0136									
K/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760

APC11-716 IA14 ORBITER FUSELAGE (R21032)

ALPHAX (2) = -6.240 BETA0 (10) = 10.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
120.000		.3193	.1535	.0702	.1156										
140.000															
150.000		.4393	.3936	.3081	.3222										
131.000															
154.000															
162.000															
163.000															
169.000															
174.000															
190.000	1.1060	.7650	.6156	.5279	.4625	.5145	.7960	.6837							
W/LB	.6530	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					

PHI

.000	-.0005	.0028	.0627	.0941	-.3164	-.4011	-.3937								
40.000	-.0230	.0305	.0967	-.3755	-.5347	-.4514	-.3686								
70.000	.1019	.1211	.0753	.2146	-.1309	-.1441	-.1629								
90.000	.0333	.0937	.0939	.1396	-.2076	-.1629	-.1920								
105.000			.1669	.0620	-.2459	-.1990	-.2101								
110.000															
120.000	.0968	.2160	-.0691	-.3505	-.4079	-.2975	-.3359								
135.000			.4357	-.0042	-.5636	-.6110	-.6499								
150.000	-.0602	.2368	.3392	.6449	-.2036	-.3331	-.4740								
165.000	-.0768		.4864		-.0841	-.2724	-.3649								
160.000	-.1103	.2229	.4308	.5529											

ALPHAX (3) = -6.210 BETA0 (1) = -10.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2270	.6484	.3168	.2961	.4162	.0000									
20.000			.4119	.3368	.3964	-.0047									
40.000			.6481	.4154	.3630	.2500									
55.000			.6230	.5921	.4835	.3530									
70.000			.6921	.6636	.5307	.4250									
90.000	1.1140		.6971	.6932	.5471	.4743									
120.000			.6550	.6603	.5662	.5726									
140.000															
150.000			.7014	.5675	.5302	.5721									
131.000															
154.000															
162.000															



(R21832)

ALPHAX 3) = -6.210 BETA0 (1) = -10.020

SECTION (1) ORBITER FUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.9760
PHI															
169.000								.6806							
169.000															
174.000						.9763									
160.000	1.2270	.8474	.9903	.4813	.4992	.4931		.6275							
W/LB	.6930	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.1564	.2305	.3489	.4148	.4628	-.3943	-.3600								
40.000	.2104	.3479	.5060	.1766	-.3717	-.4020	-.3666								
70.000	.0601	-.1083	.1171	.3056	.1920	.2603	.1790								
90.000	.0922	-.0677	.2003	.3082	.1960	.2320	.1668								
105.000			.3289	.2325	.1433	.1943	.1374								
110.000															
120.000	-.0315	-.0820	.6211	.3857	.1862	.2126	.1972								
135.000			.5602	.3161	.2305	.2614	.1461								
150.000	-.1082	.1157	.3884	.3049	.3512	.3023	.0053								
165.000	-.0680		.3861		.4616	.3016	-.1344								
180.000	-.0812	.1971	.4120	.4706											

ALPHAX 3) = -6.220 BETA0 (2) = -7.960

SECTION (1) ORBITER FUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.9760
PHI															
.000	1.2600	.6776	.3477	.3174	.4385	.0000									
20.000			.4175	.3504	.4085	-.1201									
40.000			.6129	.3991	.3758	.1582									
55.000			.7562	.5347	.4313	.2614									
70.000			.8208	.5945	.4658	.3475									
90.000	1.0400		.6281	.6246	.4763	.4117									
120.000			.6147	.6220	.5423	.5375									
140.000															
150.000			.7079	.5908	.5276	.5634									
151.000															
158.000															
165.000															
169.000															
174.000															
190.000	1.2600	.6714	.3918	.3141	.4831	.5150									
W/LB	.6930	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

DATE OF DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

(R01832)

ARC11-716 1A14 01-718-31265-AT10 CRB. PURCHASE

ALPHA(3) = -4.220 BETA(2) = -7.960

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7500	.7810	.8230	.8230	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1481	.2370	.3401	.4014	-.4008	-.3931	-.3571		-.3433	-.3333
40.000	.1891	.2826	.3993	.4378	-.3429	-.3824	-.3556		-.3266	-.3197
70.000	.0884	-.0946	.1197	.2333	.1195	.2232	.1543			
90.000	.0888	-.0480	.2232	.2940	.0754	.1932	.1413			
105.000			.3296	.2307	.0246	.1553	.1126			
110.000								-.1731		
120.000	.0806	.0126	.4266	.3308	.0985	.1822	.1227	.0543		
135.000			.6189	.3491	.1899	.2093	.1036			
150.000	.0091	.2184	.4429	.3483	.2790	.2436	-.0409			
165.000	-.0093		.4244	.3759	.2431	-.1670				
180.000	-.0122	.2377	.4412	.5476						

ALPHA(3) = -6.230 BETA(3) = -5.960

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.2810	.7013	.3641	.3344	.4916	.0000		-.1382	-.0935	-.1236	-.1771	-.1686	-.0361	.0774	
20.000		.4226	.3291	.4116	-.2297			.0141	-.0930	-.1733	-.1163	-.1614	-.1033	.1640	
40.000		.5787	.3836	.3487	.0820			-.0434	-.0134	-.0134	-.1163	-.1614	-.1033	.1640	
55.000		.6886	.4823	.3638	.2175			.0755	-.0267	-.4161	-.1743	-.1414	-.0533		
70.000		.7354	.5232	.4041	.2886			.1483	-.0123	-.3390	-.2997	-.1298	-.0533		
90.000	.9488	.7878	.5387	.4176	.3337			.1796	.0371	-.2629	-.5373	-.1480	-.0951		
120.000		.7731	.5616	.5029	.5322			.4073	.0366						
140.000		.7037	.5092	.5230	.5577			.5916	-.0717	-.3530	-.3477	-.1737	-.1457		
170.000								.6323							
196.000								.6093							
182.000								.6753							
169.000															
174.000															
180.000	1.2810	.6406	.6172	.5399	.5004	.5297	.9951								
W/LB	.6530	.7500	.7810	.8230	.8230	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.000	.1439	.2160	.3067	.3484	-.3923	-.3722	-.3509
40.000	.1690	.2913	.3227	.1141	-.3370	-.3684	-.3280	-.3203
70.000	.0713	-.0480	.1723	.2730	.0791	.1533	.1168	
90.000	.0701	-.0019	.2293	.2887	.0241	.1145	.1033	
105.000			.3184	.2181	-.0190	.0619	.0764	
110.000								-.1880



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MRC11-716 1A14 CR-112-81262-NAT10 CR8. PUSBLAGE (R81832)

ALPHAX (3) = -6.230 BETA0 (3) = -5.960

SECTION (1) CRIBITER PUSBLAGE	DEPENDENT VARIABLE CP
W/LB	.6630 .7500 .7810 .8230 .9620 .9230 .9630 1.0020 1.0210 1.0480
PHI	
120.000	.0685 .1526 .4448 .2712 .0048 .0637 .0701 -.0755
135.000	.0631 .3745 .1368 .1377 .0237
150.000	.0545 .2647 .4915 .2677 .2028 .1824 -.1028
165.000	.0483 .4804 .2934 .1880 -.2099
180.000	.0445 .2713 .4883 .3684

ALPHAX (3) = -6.120 BETA0 (4) = -1.990

SECTION (1) CRIBITER PUSBLAGE	DEPENDENT VARIABLE CP
W/LB	.0000 .0080 .0230 .0470 .0700 .1120 .1390 .1670 .1780 .2030 .2320 .3010 .3790 .4990 .5760
PHI	
.000	1.3140 .7162 .3715 .3461 .4548 .0000
20.000	.4068 .3488 .4098 -.4109
40.000	.3065 .3292 -.0246
55.000	.3812 .3884 .2883 .1106
70.000	.6277 .4126 .2940 .1865
90.000	.9105 .6435 .4421 .3077 .2338
120.000	.6875 .4830 .4212 .4282
150.000	.6787 .5674 .4901 .3232
170.000	.7647
195.000	.5471
165.000	.6549
174.000	.9070
180.000	1.3140 .6632 .6811 .5657 .3196 .5489
W/LB	.6630 .7500 .7810 .8230 .9620 .9230 .9630 1.0020 1.0210 1.0480
PHI	
.000	.1079 .1626 .2603 .2729 -.2674 -.3755 -.3210
40.000	.1117 .1897 .3395 -.0400 -.3315 -.3472 -.3296
70.000	.0884 .0685 .1673 .2283 .0016 .0128 .0045
90.000	.0868 .1205 .2119 .2101 -.0260 .0160 .0230
105.000	.2790 .1541 -.0796 -.0444 -.0336
110.000	
120.000	.0868 .2406 .3066 .1368 .1037 .0171 -.1036
135.000	.6443 .3882 .0949 .0471 .0802
150.000	.0936 .3160 .5480 .4851 .0000 .0785 -.1776
165.000	.0936 .3071 .1295 .0757 -.2678
180.000	.0933 .3165 .4997 .9070

PHI	
120.000	-.0836 -.1915 -.2082 -.1934 -.0763 .0364
135.000	-.0463
150.000	-.1769 -.1697 -.1745 -.2076 -.0769 .1059
165.000	-.0723
180.000	-.0936 -.4826 -.2692 -.1960 -.1014
190.000	-.1826 -.4026 -.3934 -.1790 -.1032
195.000	-.1131 -.3693 -.3947 -.1795 -.1210
198.000	-.1512
199.000	-.3810 -.3240 -.3657 -.2279 -.1136
PHI	
120.000	.4728
135.000	.7647
150.000	.8549
165.000	.9122
180.000	.0122
PHI	
120.000	-.3063 -.2886
135.000	-.3187 -.3006

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 1A14 04-1118-81028-AT10 CRG. PURCHASE (R81832)

ALPHAO (3) = -6.120 BETA0 (3) = .000

SECTION (1) ORBITER PURCHASE DEPOSIT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PWT															
.000	1.5160	.7132	.3998	.3411	.4418	.0000		-.1219		-.0714	-.1555	-.2128	-.2165	-.0498	.0546
80.000			.3068	.3332	.4023	-.4828		-.2043		-.0726					
40.000			.4813	.3239	.3077	-.0839		-.2375		-.1511	-.1447	-.2007	-.2178	-.0393	.0839
90.000			.3210	.3367	.2351	.0634		-.0372		-.1116					
70.000			.3613	.3519	.2340	.1418		.0339		-.1685	-.3231	-.3154	-.2212	-.1002	
90.000		.7898	.3020	.3222	.2495	.1778		-.0074		-.2051	-.3000	-.4551	-.1992	-.1103	
120.000			.6348	.4484	.3705	.3777		.2354		-.2011	-.4291	-.6851	-.2271	-.1344	
140.000										-.2348					
130.000			.6547	.5553	.4776	.3822			.4171	-.4323	-.5390	-.3338	-.2484	-.1155	
131.000								.7232							
124.000									.3064						
162.000								.0422							
168.000							.9574								
169.000															
174.000															
180.000	1.3160	.6649	.6603	.5700	.2804	.5269		.0310		-.4367	-.4715	-.2391	-.2792	-.1139	
W/LB	.6800	.7200	.7610	.6230	.6620	.6230	.9480	1.0220	1.0210	1.0490					

PWT

.000	1.104	.1368	.1629	.0730	-.3419	-.3399	-.3372								
40.000	.6934	.1355	.2301	-.0868	-.3825	-.3391	-.3233			-.3049	-.3096				
70.000	.0894	.0944	.1396	.2080	-.0230	-.0232	-.0419			-.3136	-.2911				
90.000	.6905	.1325	.1943	.1667	-.0437	-.0642	-.0798								
105.000			.2344	.1112	-.0948	-.0913	-.1005								
110.000			.2391	.0405	-.1540	-.0743	-.1302								
125.000			.6576	.3648	-.1743	-.0496	-.1275								
130.000	.1098	.3229	.3633	.3157	-.0426	-.0403	-.2171								
166.000	.1059		.3198		.0746	-.0478	-.3015								
160.000	.1072	.3095	.3090	.6159											

ALPHAO (3) = -6.120 BETA0 (3) = 2.030

SECTION (1) ORBITER PURCHASE DEPOSIT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PWT															
.000	1.3160	.6800	.3316	.3175	.3963	.0000		-.0994		-.0703	-.1744	-.2265	-.2011	-.0749	.0379
80.000			.2490	.3155	.3422	-.3212		-.1360		-.0931					
40.000			.4044	.2937	.2632	-.1344		-.2407		-.1418	-.1792	-.2558	-.2423	-.0474	.0482
90.000			.4583	.2420	.2051	.0289		-.0660		-.1472					
70.000			.4944	.2919	.1799	.1041		-.0756		-.2090	-.5990	-.3647	-.2514	-.0094	
90.000		.6849	.3151	.3174	.1872	.1395		-.0508		-.2399	-.3302	-.4906	-.2130	-.0839	



ARC11-716 1A14 01-712-91283-AT10 CRG. PUSBLAGE (M318382)

ALPHAOX 31 = -8.123 BETAO (6) = 2.030

SECTION (11-CRIBITER PUSBLAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1390	.1670	.1790	.2050	.2320	.3010	.3790	.4990	.5760
PWT															
120.000															
140.000															
170.000															
191.000															
196.000															
198.000															
199.000															
199.000															
199.000															
199.000															
199.000															
199.000															
W/LB	.0000	.7500	.0715	.0692	.9606	.9140	.5496	.9477							

1.000	.1307	1.491	.0642	-.3233	-.3232	-.3145									
.0741	.0945	1.330	-.1996	-.3370	-.3290	-.3277									
.0872	.0840	1.333	-.1940	-.0486	-.0790	-.0740									
.1101	.1919	1.791	1.633	-.0644	-.0904	-.1144									
103.000		.2319	.0803	-.1135	-.1236	-.1371									
110.000															
120.073		.1216	.2308	1.071	-.0202	-.2106	-.1160	-.1932							
135.000		.6216	.3300	-.2331	-.1479	-.1679									
130.000		.1224	.3160	.3903	-.0706	-.1312	-.2771								
165.000		.1111	.5192		.0311	-.1240	-.3412								
190.000		.1106	.3175	.4997	.6145										

ALPHAOX 31 = -8.110 BETAO (7) = 4.000

SECTION (11-CRIBITER PUSBLAGE		DEPENDENT VARIABLE CP													
W/LB	.0070	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1790	.2050	.2320	.3010	.3790	.4990	.5760
PWT															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
191.000															
198.000															
199.000															
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199.000															
199.000															
W/LB	.0070	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1790	.2050	.2320	.3010	.3790	.4990	.5760

ARC11-716 IAI4 Q1718-31823-A710 CRG. PURCHASE (081832)

ALPHA01 B = -4.110 BETA0 (T) = 4.000

SECTION (11) CRITER PURCHASE DEPENDENT VARIABLE CP

W/L	.0000	.0000	.0020	.0470	.0700	.1120	.1500	.1670	.1700	.2050	.3010	.3700	.4000	.5700
PWT														
100.000														
100.000														
174.000														
100.000	1.2070	.0000	.0401	.5005	.5030	.5376	.0001	.0072						
W/L	.0000	.7000	.7010	.0020	.0020	.0020	.0030	1.0000	1.0010	1.0010	1.0010	1.0000	1.0000	1.0000
PWT														
100.000														
100.000														
100.000														
100.000	1.2070	.0000	.0401	.5005	.5030	.5376	.0001	.0072						
W/L	.0000	.7000	.7010	.0020	.0020	.0020	.0030	1.0000	1.0010	1.0010	1.0010	1.0000	1.0000	1.0000
PWT														
100.000														
100.000														
100.000														
100.000	1.2070	.0000	.0401	.5005	.5030	.5376	.0001	.0072						
W/L	.0000	.7000	.7010	.0020	.0020	.0020	.0030	1.0000	1.0010	1.0010	1.0010	1.0000	1.0000	1.0000

ALPHA02 B = -6.100 BETA0 (B) = 5.000

SECTION (11) CRITER PURCHASE DEPENDENT VARIABLE CP

W/L	.0000	.0000	.0020	.0470	.0700	.1120	.1500	.1670	.1700	.2050	.3010	.3700	.4000	.5700
PWT														
100.000														
100.000														
100.000														
100.000	1.2770	.0000	.0000	.2077	.3000	.0000								
W/L	.0000 <td>.0000 <td>.0020 <td>.0470 <td>.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td></td></td></td></td></td></td>	.0000 <td>.0020 <td>.0470 <td>.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td></td></td></td></td></td>	.0020 <td>.0470 <td>.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td></td></td></td></td>	.0470 <td>.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td></td></td></td>	.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td></td></td>	.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td></td>	.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td>	.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td>	.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td>	.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td>	.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td>	.3700 <td>.4000 <td>.5700</td> </td>	.4000 <td>.5700</td>	.5700
PWT														
100.000														
100.000														
100.000														
100.000	1.2770	.0000	.0000	.2077	.3000	.0000								
W/L	.0000 <td>.0000 <td>.0020 <td>.0470 <td>.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td></td></td></td></td></td></td>	.0000 <td>.0020 <td>.0470 <td>.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td></td></td></td></td></td>	.0020 <td>.0470 <td>.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td></td></td></td></td>	.0470 <td>.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td></td></td></td>	.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td></td></td>	.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td></td>	.1500 <td>.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td></td>	.1670 <td>.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td></td>	.1700 <td>.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td></td>	.2050 <td>.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td></td>	.3010 <td>.3700 <td>.4000 <td>.5700</td> </td></td>	.3700 <td>.4000 <td>.5700</td> </td>	.4000 <td>.5700</td>	.5700



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ARC11-716 1A14 04-712-S12625-A110 ORB. FUSELAGE (R81032)

ALPHA(X) 3) = -6.190 BETA(O) (8) = 6.090

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP						
X/LB		.6530	.7010	.6230	.9230	1.0020	1.0210	1.0480
PHI	.000	.0383	.0971	.1319	-.3340	-.5679	-.3578	-.3399
	40.000	.0237	.0642	.1316	-.3517	-.5220	-.4741	-.3444
	70.000	.0946	.1032	.0991	-.1996	-.1187	-.1286	-.3509
	90.000	.1017	.1324	.1280	.1242	-.1249	-.1462	-.3582
	105.000		.1921	.0596	-.1727	-.1649	-.1882	
	110.000						-.3082	
	120.000	.076	.2151	.0141	-.2275	-.3213	-.1996	-.2994
	135.000		.5140	.2039	-.4206	-.4172	-.3241	
	150.000	.0716	.2753	.5426	-.1629	-.2628	-.3990	
	165.000	.0599	.4981		-.0431	-.2263	-.3339	
	180.000	.0507	.2699	.4826	.5656			

ALPHA(X) 3) = -6.190 BETA(O) (9) = 6.090

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB		.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.2030	.2520	.3010	.3790	.4990	.5780
PHI	.000	1.2310	.5826	.2248	.2677	.3663	.0000	-.1963	-.2437	-.2843	-.3197	-.3633	-.2396	-.0938	
	20.000		.2062	.2309	.3571	-.7091	-.1732	-.1929	-.2324	-.1865	-.2792	-.4198	-.3463	-.1383	-.0219
	40.000		.2125	.1900	.2350	-.3782	-.1532	-.2127	-.2127	-.2863	-.6411	-.4710	-.2396	-.0699	
	55.000		.2467	.1304	.1280	-.1166	-.2140	-.2009	-.4390	-.6479	-.6099	-.2693	-.0750		
	70.000		.2836	.1296	.0670	.0028	-.2009	-.0252	-.4495	-.5967	-.7781	-.5130	-.1365		
	90.000	.3024	.3070	.1293	.0403	.0210	-.0252	-.6146	-.6146	-.5551	-.6164	-.3383	-.3861	-.2786	
	120.000		.3751	.1750	.1186	.1612		.1650							
	140.000		.4571	.4066	.3210	.3467	.4948								
	150.000						.7090								
	156.000														
	162.000														
	168.000														
	174.000														
	180.000	1.2310	.7815	.6000	.5086	.4641	.5019	.6329	-.4478	-.5033	-.3274	-.3068	-.3075		
X/LB	.6530	.7500	.7810	.6230	.8620	.8620	.9230	.9630	1.0020	1.0210	1.0480				
PHI	.000	-.0044	.0687	.1162	.1316	-.2901	-.3663	-.3713	-.3504	-.3116					
	40.000	.0109	.0590	.1378	-.3972	-.3278	-.4723	-.3559	-.3716	-.3661					
	70.000	.0856	.1080	.0781	.2008	-.1297	-.1491	-.1556							
	90.000	.0726	.1330	.0999	.1242	-.1695	-.1657	-.1968							
	105.000		.1876	.0707	-.2024	-.1962	-.2143	-.3026							
	110.000														

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ARC11-716 1A14 ORBITER FUSELAGE (R81832)

ALPHA(9) = -6.190 BETA(9) = 0.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.0699	.2115	-.0248	-.2926	-.3603	-.2493	-.3327	-.3468		
135.000			.4502	.1232	-.4932	-.5207	-.4493			
150.000	.0287	.2515	.5192	.6105	-.1932	-.3121	-.4497			
165.000	.0045		.4806	-.0763	-.2617	-.3491				
180.000	-.0121	.2519	.4353	.5706						

ALPHA(9) = -6.170 BETA(10) = 10.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1750	.5368	.1708	.2392	.3661	.0000		-.3270	-.2973	-.4290	-.3281	-.4204	-.3018	-.1415	
20.000			.1405	.2036	.3439	-.7689		-.1928	-.3222	-.2368	-.3073	-.4668	-.3754	-.1641	-.0409
40.000			.1315	.1902	.2230	-.4721		-.1877	-.2340						
55.000			.1729	.1165	.1123	-.1622		-.1764	-.3113	-.6721	-.5116	-.2335	-.0775		
70.000			.2107	.0631	.0442	-.0324		-.2336	-.4867	-.6911	-.6243	-.2911	-.1116		
90.000	.1726	.2339	.0665	-.0038	-.0234			-.2485	-.5101	-.6398	-.7750	-.9035	-.1764		
120.000			.2328	.0864	.0437	.1022		-.0998	-.6636						
140.000			.3932	.3483	.2648	.2688		.0969	-.5366	-.6339	-.5354	-.3909	-.4398		
150.000								.4430							
151.000									.2673						
162.000										-.5486	-.5062	-.3785	-.3087	-.3616	
165.000															
169.000								.6632							
174.000						.7728									
180.000	1.1750	.7535	.5647	.4756	.4311	.4724		.6368		-.6348	-.4688	-.3638	-.2324	-.2882	

X/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	-.0474	.0335	.0880	.0974	-.3078	-.3902	-.3642		-.3306	-.3090
40.000	.0014	.0480	.1066	-.3749	-.3256	-.4647	-.3603		-.3639	-.3757
70.000	.0716	.0667	.0600	.2099	-.1473	-.1869	-.1817			
90.000	.0410	.0990	.0800	.1312	-.2101	-.2103	-.2227			
105.000			.1830	.0727	-.2423	-.2324	-.2330			
110.000								-.2914		
120.000	.0657	.1961	-.0256	-.3231	-.3784	-.2863	-.3411	-.3218		
135.000			.3664	.0303	-.5819	-.6101	-.5943			
150.000	-.0029	.2214	.4866	.6747	-.2781	-.3543	-.4872			
165.000	-.0526		.4531	-.1098	-.2938	-.3571				
180.000	-.0971	.1971	.3996	.3097						



ARC11-716 1A14 01*112*512*25*AT10 CRB. FUSELAGE (R81832)

ALPHA(4) = -4.240 BETA(1) = -10.010

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PHI	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5780
0.000	1.2125	.6575	.3057	.2676	.3940	.0000	-.2349	-.0969	-.0346	-.2974	-.2786	-.2974	-.0365	-.0987		
20.000		.4053	.3131	.3727	-.0302	-.2209										
40.000		.6450	.3964	.2115	-.0268											
55.000		.8069	.5738	.4647	.3361	.2808										
70.000		.8711	.6349	.5038	.4032	.2495										
90.000	1.0870	.8625	.6385	.5137	.4436	.2919										
120.000		.8079	.6046	.5359	.5368	.4837										
140.000		.6432	.5250	.4714	.5175	.6090										
150.000						.8669										
156.000																
162.000																
165.000																
169.000																
174.000																
180.000	1.2120	.7955	.4906	.4213	.4047	.4446	.9483									
	.6530	.7300	.7610	.6230	.6620	.9250	.9630	1.0020	1.0210	1.0480						
PHI		.1644	.2660	.3573	.4065	-.4621	-.3906	-.3570								
40.000		.2337	.3630	.6005	.2056	-.3556	-.4145	-.3666	-.3547	-.3371						
70.000		.0286	-.1657	-.1407	.2516	.0680	.2225	.1534	-.3316	-.3096						
90.000		.0430	-.1368	.0804	.2640	.0332	.1957	.1413								
105.000				.2566	.1675	-.0177	.1611	.1114								
110.000																
120.000		-.1183	-.1366	.3262	.3520	.0088	.1755	.1265								
135.000				.4823	.2542	.1687	.2136	.1036								
150.000		-.1026	.0052	.3342	.2397	.2862	.2548	-.0319								
165.000		-.0712	.3450	.3963	.2458	-.1667										
180.000	-.0602	.1467	.3705	.4280												

ALPHA(4) = -4.270 BETA(2) = -6.020

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PHI	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5780
0.000	1.2510	.6846	.3337	.2933	.4137	.0000	-.1736	-.0672	-.0672	-.1348	-.2733	-.2024	-.0440	-.0967		
20.000		.4133	.3280	.3654	-.1312	-.2257										
40.000		.6126	.3628	.3553	.1426	-.0415										
55.000		.7491	.5183	.4118	.2654	.1205										
70.000		.8031	.5055	.4374	.3248	.2002										
90.000	1.0140	.7980	.5676	.4377	.3839	.2320										

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ARC11-716 1A14 01-712-S12G2-A110 CRB. FUSELAGE (R01832)

ALPHAO (4) = -4.270 BETAO (2) = -0.020

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PHI	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
120.000				.7667	.5679	.4937	.4949		.4426		.0765	-.2444	-.5224	-.1621	-.1305	
140.000											.0543					
190.000				.6486	.5332	.4695	.5123			.5671	.0265	-.6071	-.4450	-.2191	-.1995	
191.000																
196.000										.6360						
165.000																
169.000																
174.000																
190.000				1.2310	.8171	.9286	.4561	.4285	.4633	.9362						
X/LB	PHI	.6550	.7500	.7610	.6250	.6620	.9230	.9630	1.0020	1.0480						

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PHI	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
120.000				.3468	.3695	-.3735	-.3686	-.3460								
140.000				.2081	.3627	.1606	-.3353	-.3741	-.3509							
190.000				.0140	-.1996	.0124	.2557	.0440	.1339							
191.000																
196.000				.0343	-.1026	.1243	.2562	.0019	.1477	.1218						
105.000																
110.000																
120.000				-.0436	-.0609	.3701	.3106	-.0353	.1074	.0993						
135.000																
150.000				-.0070	.1142	.3907	.2946	.2222	.2001	-.0765						
165.000				-.0057		.3607										
180.000				-.0030	.1691	.4016	.4960									

ALPHAO (4) = -4.280 BETAO (3) = -5.970

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PHI	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
120.000				.3532	.3136	.4411	.0000									
140.000				.4136	.3149	.4016	-.2537									
190.000				.5746	.3669	.3451	.0737									
191.000																
196.000				.6836	.4642	.3636	.1960									
70.000				.7541	.5025	.3744	.2648									
90.000				.9395	.7505	.5286	.3340									
120.000				.7297	.5328	.4516	.4643									
140.000																
150.000				.6450	.5312	.4666	.5106									
191.000																
196.000																
162.000																



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(R01032)

ARC11-716 1A14 ORBITER FUSELAGE

ALPHAX (4) = -4.230 BETA0 (4) = -3.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.4530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1983	.2162	.2855	.2910	-.2410	-.3566	-.3172		-.3076	-.3003
40.000	.1653	.2709	.4569	.0749	-.3185	-.3486	-.3211		-.3009	-.2932
70.000	.0291	-.1036	.1036	.2247	.0002	.0366	.0721			
90.000	.0376	-.0349	.1567	.2090	-.0399	-.0047	.0567			
105.000		.2484	.1502	-.0777	-.0422	.0296				
110.000										-.1907
120.000	.0961	.1262	.3616	.1868	-.1096	-.0093	-.0609			-.0869
135.000			.6117	.3415	-.0627	.0652	-.0617			
150.000	.0946	.2486	.4756	.3964	.0363	.0907	-.1694			
165.000	.0928		.4434	.1937	.0951	-.2648				
180.000	.0972	.2665	.4457	.3276						

ALPHAX (4) = -4.240 BETA0 (5) = -1.960

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
.000	1.3410	.7191	.3448	.3068	.6257	.0000		-.1279	-.0792	-.1449	-.1603	-.1626	-.0701	-.0494	
20.000		.3639	.3122	.3949	-.4168			-.1571	-.0434	-.1371	-.1780	-.2010	-.0748	.1185	
40.000		.4912	.3070	-.0401				-.1807	-.1371	-.1579	-.1780	-.2010	-.0748	.1185	
60.000		.5686	.3633	.2731	.0929			-.0475	-.0763	-.0966	-.4968	-.2634	-.2258	-.1077	
70.000		.6072	.3856	.2746	.1643			.0509	-.0696	-.0966	-.4968	-.2634	-.2258	-.1077	
90.000	.7847	.6180	.4149	.2774	.2259			.0743	-.1676	-.4323	-.3632	-.2151	-.1158		
120.000		.6474	.4504	.3613	.4035			.2971	-.1266	-.3932	-.6221	-.1955	-.1345		
140.000		.6301	.5162	.4409	.4844				-.4344	-.5876	-.4135	-.2467	-.1509		
150.000								.4951							
156.000								.7542							
162.000									.9275						
165.000										-.4833	-.4784	-.3358	-.2740	-.1293	
169.000															
174.000															
180.000	1.3110	.8457	.7988	.5162	.4694	.5093		.6362							
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.1232	.1653	.2686	.2765	-.2693	-.3462	-.3045		-.2914	-.2865					
40.000	.1321	.2249	.3729	-.0310	-.3175	-.3263	-.2069		-.3007	-.2893					
70.000	.0314	-.0621	.1261	.2101	-.0223	-.0063	.0004								
90.000	.0345	.0276	.1736	.1879	-.0424	-.0422	-.0360								
105.000		.2353	.1349	-.0767	-.0704	-.0745									
110.000															



ARC11-716 1A14 06112891282941710 CRD. FUSELAGE (R01832)

ALPHA(4) = -4.290 BETA(7) = 2.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3600	.7017	.3105	.2864	.3727	.0000									
20.000			.3232	.2697	.3404	-.3236									
40.000			.3901	.2992	.2462	-.1487									
55.000			.4361	.2992	.1816	.0133									
70.000			.4756	.2997	.1519	.0846									
90.000		.6106	.4903	.2900	.1621	.1165									
120.000			.5429	.3522	.2787	.3060									
140.000			.5750	.4807	.3999	.4340									
150.000									.3467						
154.000									.6343						
162.000									.4451						
165.000									.7965						
169.000															
174.000							.8627								
180.000	1.3600	.6229	.6027	.5163	.4641	.5033									
X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI															
.000	1.1199	.1409	.1692	.0674	-.3068	-.3237	-.3031								
40.000		.0923	.1133	.1468	-.1763	-.3194	-.3205								
70.000		.0531	.0933	.1072	.1737	-.0627	-.1064								
90.000		.0723	.1069	.1468	.1470	-.0835	-.1218	-.1405							
105.000			.2114	.0648	-.1308	-.1486	-.1584								
110.000															
120.000		.1099	.2085	.1985	-.0148	-.2223	-.1379	-.2131							
135.000			.3731	.3272	-.2610	-.1631	-.2099								
150.000		.1248	.2692	.3212	-.1099	-.1384	-.3011								
165.000		.0992	.4627		.0134	-.1548	-.3438								
180.000	.1014	.2915	.4668	.5640											

ALPHA(4) = -4.310 BETA(8) = 4.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3000	.6716	.2764	.2739	.3629	.0000									
20.000			.2878	.2745	.3127	-.3663									
40.000			.3242	.2318	.2167	-.2067									
55.000			.3663	.2093	.1406	-.0231									
70.000			.4024	.2068	.1006	.0304									
90.000		.3048	.4240	.2272	.1024	.0604									



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ARC11-716 1A14 OR-T12-S12E5-A110 CRG. FUELAGE (R61832)

ALPHAOX (4) = -4.310 BETA0 (8) = 4.040

SECTION (1) ORBITER FUELAGE DEPOSIT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PH1															
120.000			.4624	.2994	.2066	.2568	.1128			-.3420	-.3477	-.7356	-.3336	-.1076	
140.000										-.3180					
150.000			.5366	.4387	.3590	.4068		.2837		-.5397	-.3944	-.3540	-.3571	-.1406	
171.000								.5997							
176.000									.4010						
182.000										-.4768	-.8060	-.3133	-.3123	-.1536	
185.000															
188.000															
174.000															
180.000	1.3000	.8043	.5845	.5099	.4537	.4993	.8054			-.8230	-.4850	-.3034	-.2761	-.1508	
180.000	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0490					

PH1

100.000	.1012	.1426	.1756	.0955	-.3385	-.3394	-.3309			-.3155	-.2837				
120.000	.0872	.1024	.1505	-.2680	-.4804	-.4034	-.3099			-.3176	-.3307				
70.000	.0826	.0799	.0832	.1634	-.0954	-.1196	-.1353								
90.000	.0827	.1108	.1235	.1246	-.1182	-.1457	-.1809								
105.000		.1946	.0391	-.1069	-.1868	-.1906									
110.000															
120.000	.1091	.2050	-.1026	-.2828	-.1611	-.2322									
135.000		.3314	.2630	-.3369	-.2786	-.2685									
150.000	.1089	.2759	.3088	.5180	-.1503	-.2320	-.3548								
165.000	.1107		.4721		-.0293	-.2126	-.3175								
180.000	.1103	.2741	.4493	.5430											

ALPHAOX (4) = -4.220 BETA0 (8) = 6.060

SECTION (1) ORBITER FUELAGE DEPOSIT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PH1															
120.000	1.2330	.9982	.2003	.2377	.3624	.0000				-.2453	-.3791	-.3215	-.3316	-.1705	-.0717
20.000			.1787	.1947	.3330	-.7136				-.2313					
40.000			.1836	.1539	.2072	-.3994				-.1969	-.2913	-.4300	-.3132	-.1035	.0032
55.000			.2193	.1134	.0977	-.1413				-.2163					
70.000			.2006	.0970	.0354	-.0247				-.2911	-.6492	-.4630	-.2423	-.0390	
90.000		.2747	.2821	.0975	.0103	.0076				-.4341	-.6748	-.6029	-.2614	-.0393	
120.000		.3427	.1890	.0782	.1457					-.4623	-.6208	-.7961	-.4678	-.0877	
140.000										-.6363					
150.000			.4210	.3464	.2730	.3126				-.3033	-.6631	-.3734	-.4127	-.2171	
171.000															
190.000															
196.000															
182.000															

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ARC11-716 1A14 OI-TI2-SI2ES-RATIO CRG. FUELSAGE

ALPHAOX 4) = -4.220 BETAO (9) = 9.040

SECTION (1) CRIBITER FUELSAGE DEPENDENT VARIABLE CP

X/L/S	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2380	.3010	.3790	.4990	.5760
PWT															
160.000															
140.000						.8148		.8909							
174.000			.5444	.4.8	.4099	.4592									
160.000		.7296													
X/L/S	.6530	.7500	.7610	.8230	.9020	.9230	.9430	1.0020	1.0210	1.0480					
PWT															
160.000															
140.000															
174.000															
160.000															

-.4772 -.5493 -.3682 -.3322 -.2968
 -.6463 -.4770 -.3926 -.2776 -.2695

-.3359 -.2972
 -.3615 -.3591
 -.3025
 -.3230

ALPHAOX 4) = -4.210 BETAO (10) = 10.100

SECTION (1) CRIBITER FUELSAGE DEPENDENT VARIABLE CP

X/L/S	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2380	.3010	.3790	.4990	.5760
PWT															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
174.000															
160.000															
X/L/S	1.1730	.5423	.1391	.1997	.3442	.0000									
PWT															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
174.000															
160.000															
X/L/S	1.1730	.6009	.9160	.6237	.3796	.4323									
PWT															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
174.000															
160.000															
X/L/S	.6536	.7500	.7610	.8230	.9020	.9230	.9430	1.0020	1.0210	1.0480					
PWT															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
174.000															
160.000															



(M01832)

MC11-718 1A14 ON-TIE-SIDES-AT10 CRG. PUSBLAGE

ALPHA01 = -4.210 BETA0 (10) = 10.100

SECTION (1) ORBITER PUSBLAGE DEPOSIT VARIABLE CP

W/L	.0000	.7000	.7010	.0200	.0000	.0000	.0000	.0000	1.0000	1.0010	1.0000
PMT											
40.000	-.0007	.0004	.1095	.1128	-.2090	-.3729	-.3076			-.3308	-.2945
70.000	.0002	.0720	.1223	-.3709	-.5172	-.4810	-.3479			-.3679	-.3644
90.000	.0007	.0006	.0096	.1907	-.1549	-.1937	-.1939				
100.000	.0200	.0000	.0707	.1307	-.2103	-.2097	-.2300				
110.000			.1653	.0647	-.2409	-.2475	-.2536				
120.000										-.2737	
130.000	.0409	.1001	.0006	-.2791	-.3598	-.2872	-.3993			-.3052	
140.000			.2790	.0537	-.5200	-.6041	-.5335				
150.000	.0130	.0031	.4324	.6078	-.2401	-.3736	-.4908				
160.000	-.0024		.4106		-.1307	-.3243	-.3435				
180.000	-.0408	.1908	.3732	.4005							

ALPHA01 = -2.000 BETA0 (1) = -10.000

SECTION (1) ORBITER PUSBLAGE DEPOSIT VARIABLE CP

W/L	.0000	.0000	.0000	.0000	.0470	.0700	.1120	.1990	.1070	.1760	.2030	.2000	.3010	.3790	.4990	.5700
PMT																
40.000	1.2130	.0723	.3077	.2393	.3009	.0000			-.2478		-.0276	-.2894	-.2647	-.2878	-.0406	.1106
70.000			.4099	.3085	.3009	-.0377			-.2228		.1032					
90.000			.6012	.3933	.3403	.2106			-.0807		-.1191	-.0024	-.0006	-.0951	-.0099	.2373
100.000			.8121	.5002	.4503	.3331			.1872		.0703					
110.000			.6443	.6238	.4878	.3981			.2304		.1128	-.3157	-.0632	-.1071	-.0271	
120.000		1.0740	.8300	.6432	.4940	.4343			.2912		.0919	-.2657	-.1317	-.1574	-.0276	
140.000			.7803	.5700	.5091	.5180			.4778		.1344	-.2075	-.4670	-.2421	-.1925	
160.000			.6077	.4023	.4383	.4094					.1202					
180.000											.0668	-.6141	-.4867	-.2657	-.2250	
190.000																
194.000																
195.000																
199.000																
174.000																
160.000	1.2130	.7070	.4901	.3097	.3761	.4248										
174.000																
180.000	.0000	.7000	.7010	.6230	.0000	.0000	.0000	.0000	1.0000	1.0010	1.0000					

W/L	.0000	.7000	.7010	.0200	.0000	.0000	.0000	.0000	1.0000	1.0010	1.0000
PMT											
40.000	.2000	.2095	.3082	.4118	-.4957	-.3090	-.3326				
70.000	.2004	.4122	.6181	.2308	-.3504	-.4143	-.3614			-.3479	-.3349
90.000	.0200	-.1950	-.2403	.2296	.0473	.2043	.1911			-.3182	-.3027
100.000	.0348	-.1400	.0191	.2722	-.0004	.1768	.1365				
110.000			.2255	.1007	-.0364	.1311	.1090				

-.1702

(881832)

ALPHA(X) = -2.900 BETA(X) = -10.000

ARC11-716 1A14 CR-TIEM-SIEM-SATIO CRG. PUSBLAGE

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7000	.7010	.0200	.0470	.0700	.1120	.1700	.2000	.2010	.2700	.4990	.5700
PHI													
180.000	-.1483	-.1317	.2012	.3491	-.0679	.1970	.1246	-.0201					
194.000	.4403	.2237	1.421	1.912	.0974								
190.000	-.0482	-.0484	.3033	.2656	.2364	-.0424							
169.000	-.0459	.3194	.3764	.2515	-.1701								
180.000	-.0444	.0997	.3500	.3690									

ALPHA(X) = -2.900 BETA(X) = -8.000

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1700	.2000	.2010	.2700	.4990	.5700	
PHI													
.000	1.2470	.7002	.5339	.2856	.4099	.0000	-.1895	-.0442	-.1259	-.2575	-.1853	-.0337	.1170
80.070	.4138	.3210	.3613	-.1637			-.2459	.0665					
40.000	.6189	.3903	.3319	.1360	-.0400		-.2110	-.0924	-.0790	-.0974	-.0790	-.0790	.2160
94.000	.7465	.5294	.4047	.2623	.1396		.0192						
70.000	.7947	.9530	.4216	.3310	.1966		.0668	-.3404	-.1094	-.1448	-.0451		
90.000	1.0000	.7032	.5706	.4147	.3648		.0354	-.3174	-.1962	-.1664	-.0592		
120.000	.7422	.5391	.4665	.4769	.4362		.0755	-.2463	-.3120	-.1.75	-.1912		
140.000	.6125	.4954	.4337	.4600			.0102	-.6809	-.4832	-.2581	-.2099		
150.000							.5368						
174.000							.6299						
162.000							.9444						
169.000								-.4618	-.9040	-.4237	-.2740	-.2008	
174.000													
180.000	1.2470	.7076	.6960	.4339	.3640	.4431	.8474	.6548	-.6346	-.3027	-.4230	-.3119	-.2939

ALPHA(X) = -2.900 BETA(X) = -10.000

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7000	.7010	.0200	.0470	.0700	.1120	.1700	.2000	.2010	.2700	.4990	.5700
PHI													
.000	.2012	.2770	.3579	.3929	-.3945	-.3941	-.3468						
40.000	.2383	.3061	.3692	.1783	-.3365	-.3916	-.3469						
70.000	.0144	-.1063	-.1100	.2437	.0296	.1536	.1301						
90.000	.0367	-.1108	.0848	.2431	-.0129	.1035	.1191						
109.000		.2302	.1869	-.0477	.0227	.0910							
110.000													
120.000	-.0278	-.0901	.3377	.3135	-.0617	.0306	.0963	-.0435					
135.000			.2664	.2737	.1088	.1263	.0362						
190.000	.0167	.0437	.3711	.2655	.2006	.1831	-.0807						
169.000	.0172	.3634	.3030	.1787	-.2027								
198.000	.0127	.1614	.3937	.4760									

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MCC11-716 1A14 01-712-SIDES-AT10 CRG. PULSEAGE 0810321

ALPHAX 91 = -2.000 BETA0 (31) = -3.970

SECTION (11) CRIBITER PULSEAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2320	.3010	.3700	.4900	.5700
PH1															
00.000	1.2770	.7135	3.440	.3011	.4392	.0000		-.1600		-.0705	-.1278	-.1701	-.1714	-.0348	.1106
20.000			.4084	.3237	.3901	-.2376		.0154		-.0899					
40.000			.9772	.3376	.3425	.0605		-.0655		-.2964	-.0753	-.1115	-.1375	-.0902	.1803
60.000			.6938	.4554	.2726	.1900		-.0774		-.0107					
80.000			.7273	.4905	.3638	.2541		.1499		.0262	-.4272	-.1538	-.1790	-.0684	
100.000		.9308	.7132	.5046	.3604	.2600		.1751		-.0071	-.3542	-.2462	-.1967	-.0759	
120.000			.7076	.5046	.4237	.4474		.3954		.0168	-.2832	-.3313	-.2124	-.1448	
140.000										-.0253					
160.000			.6121	.5018	.4545	.4651			.9270	-.1395	-.0196	-.4222	-.2305	-.2029	
180.000								.6065							
200.000									.3747						
220.000										-.4871	-.3984	-.4217	-.2395	-.2239	
240.000								.6414							
260.000							.9404		.7042						
280.000										-.6268	-.4905	-.3792	-.2955	-.2140	
300.000															

W/LB .0000 .7000 .7010 .0200 .0600 .0200 .9400 1.0000 1.0210 1.0400

PH1

00.000	.1605	.2705	.3308	.3914	-.3008	-.3394	-.3261			-.3177	-.3140				
20.000	.2115	.3645	.5907	.1545	-.3176	-.3445	-.2859			-.3027	-.2933				
40.000	.0233	-.1449	.0039	.2595	.0097	.0546	.0935								
60.000	.0753	-.0972	.1154	.2298	-.0298	-.0082	.0953								
80.000			.2435	.1622	-.0473	-.0451	.0570								
100.000								-.1674							
120.000			.0068	-.0291	.3695	-.0875	.0007	-.0770							
140.000			.5794	.3116	-.0007	.0905	-.0373								
160.000		.0646	.1022	.4232	.3234	.1311	.1303	-.1367							
180.000		.0642	.4008		.2226	.1277	-.2531								
200.000		.0690	.2136	.4103	.4616										

ALPHAX 91 = -2.910 BETA0 (41) = -3.960

SECTION (11) CRIBITER PULSEAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2320	.3010	.3700	.4900	.5700
PH1															
00.000	1.2968	.7607	.3331	.2961	.4312	.0000		-.1595		-.0721	-.1379	-.2226	-.2265	-.0396	.0932
20.000			.3903	.2968	.3633	-.3396		-.0955		-.0074					
40.000			.5276	.2275	.3109	.0086		-.0399		-.2339	-.1455	-.1498	-.1085	-.0923	.1618
60.000			.6106	.3976	.3039	.1317		-.0135		-.0454					
80.000			.6995	.4220	.3057	.1978		.0832		-.0114	-.4390	-.2033	-.1971	-.0991	
100.000		.6983	.6467	.4447	.3100	.2647		.1211		-.0614	-.3922	-.2715	-.2064	-.0960	

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ARC11-716 1A14 OR-T12-S12G-S*AT10 CRG. FUSELAGE

(R81832)

ALPHAX (5) = -2.910 BETA0 (5) = -2.000

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/L/S	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.2030	.2320	.3010	.3790	.4990	.5760
PHI														
166.000														
169.000														
174.000														
180.000	1.3060	.6081	.5996	.4798	.4305	.4805	.9545	.7774						
X/L/S	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480				
PHI														
.000	1.402	.2005	.2765	.2726	-.2551	-.3399	-.2996							
40.000	1.922	2.481	.3879	-.0215	-.3104	-.3209	-.2993							
70.000	0.120	-.1313	.0695	.1937	-.0230	-.0223	.0034							
90.000	.0390	-.0445	.1291	.1659	-.0561	-.0382	-.0412							
105.000			.2006	.1061	-.0915	-.0874	-.0656							
110.000														
120.000	.0507	.1423	.2700	.1287	-.1450	-.0618	-.1276							
135.000			.5337	.3378	-.1378	-.0008	-.1038							
150.000	.0697	.2630	.4584	.4226	-.0429	.0092	-.2063							
165.000	.0787	.4396	.4396	.0916	-.0044	-.2892								
180.000	.0606	.2727	.4366	.3166										

ALPHAX (6) = -2.910 BETA0 (6) = .020

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/L/S	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.2030	.2320	.3010	.3790	.4990	.5760
PHI														
20.000														
40.000														
55.000														
70.000														
90.000														
120.000	1.3260	.7146	.3050	.2761	.3786	.0000								
140.000			.3371	.2697	.3458	-.4736								
150.000			.4302	.2695	.2569	-.1051								
156.000			.4924	.2926	.2114	.0391								
162.000			.5264	.3090	.1935	.1074								
165.000			.6019	.3331	.3347	.1978	.1596							
169.000			.3750	.3622	.3087	.3336								
174.000			.3753	.4757	.3927	.4410								
180.000														
PHI														
20.000														
40.000														
55.000														
70.000														
90.000														
120.000														
140.000														
150.000														
156.000														
162.000														
165.000														
169.000														
174.000														
180.000	1.3260	.6064	.5699	.4832	.4364	.4870	.9232							
X/L/S	.6930	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480				

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ARC11-716 1A14 01-712-912E5-AT10 ORB. FUSELAGE

(R01032)

ALPHAO (S) = -2.910 BETAO (S) = .020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.000	.1392	.1700	.1754	.0741	-.3134	-.3345	-.3196		-.2926	-.2958
40.000	.1196	.1733	.2068	-.0647	-.3068	-.3247	-.2963		-.2906	-.2730
70.000	.0121	-.0732	.0868	.1762	-.0369	-.0539	-.0784			
90.000	.0413	.0085	.1370	.1411	-.0661	-.0861	-.1053			
105.000		.1970	.0816	-.1044	-.1152	-.1294				
110.000										-.2578
120.000	.0621	.1885	.1988	.0819	-.1715	-.0937	-.1756			-.2285
135.000			.3499	.3911	-.1946	-.0792	-.1512			
150.000	.0786	.2691	.4880	.4629	-.0906	-.0903	-.2441			
165.000	.0901		.4578	.0418	-.0991	-.3095				
180.000	.0635	.2809	.4468	.5374						

ALPHAO (S) = -2.910 BETAO (T) = 2.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2920	.3010	.3790	.4990	.5760
PHI															
.000	1.3210	.7066	.2910	.2651	.3556	.0000		-.1196	-.0544	-.1374	-.1620	-.1909	-.0368	.0579	
20.000		.3125	.2578	.3186	-.5325			-.1727	-.0795	-.1019	-.1468	-.2471	-.2354	-.0306	.0795
40.000		.3605	.2399	.2261	-.1637			-.2750	-.1019	-.1468	-.2471	-.2354	-.0306	.0795	
55.000		.4294	.2417	.1633	-.0039			-.0636	-.1247						
70.000		.4603	.2468	.1364	.0669			-.1028	-.2031	-.5929	-.3498	-.2610	-.0709		
90.000	.5911	.4792	.2727	.1362	.0962			-.0697	-.2321	-.9679	-.4994	-.2338	-.0805		
120.000		.5185	.3269	.2510	.2879			.1719	-.2864	-.5102	-.7277	-.2450	-.1069		
140.000								-.4533							
150.000		.5409	.4474	.3564	.4099			.3365	-.5444	-.6021	-.3756	-.3262	-.1133		
151.000								.6461							
156.000									.4300						
162.000										-.3027	-.6049	-.3311	-.3262	-.1162	
165.000															
169.000															
174.000						.9176		.7841							
180.000	1.3210	.7697	.5656	.4797	.4267	.4760		.7871	-.6130	-.9979	-.3151	-.2864	-.1134		
X/LB	.6530	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					
PHI															
.000	.1322	.1666	.1761	.0682	-.3072	-.3217	-.3007		-.2018	-.2814					
40.000	.1039	.1311	.1961	-.1724	-.3198	-.3212	-.3153		-.2774	-.2609					
70.000	.0561	-.0116	.0719	.1366	-.0750	-.0976	-.1195								
90.000	.0631	.0353	.1165	.1298	-.1013	-.1378	-.1491								
105.000			.1884	.0571	-.1438	-.1636	-.1695								
110.000															-.2945



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(R81032)

ARC11-716 1A14 01-T12-S12E5-AT10 CR8. FUSELAGE

ALPHAO(5) = -2.910 BETA(7) = 2.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.0949	.1809	.1469	-.0177	-.2304	-.1488	-.2245	-.2660		
135.000		.5478	.3218	-.2714	-.1662	-.2186				
150.000	.1122	.2865	.4872	.4756	-.1236	-.1735	-.3130			
165.000	.1008		.4526	-.0034	-.1740	-.3420				
180.000	.0900	.2865	.4379	.3241						

ALPHAO(5) = -2.920 BETA(8) = 4.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	1.3020	.8765	.2806	.2538	.3515	.0000		-.1320	-.0741	-.2215	-.2674	-.2202	-.0624	.0306	
40.000		.2969	.2378	.2936	-.3982			-.1803	-.1016						
55.000		.5094	.2118	.1975	-.2265			-.2612	-.0984	-.2042	-.2948	-.2335	-.0438	.0514	
70.000		.3507	.1892	.1187	-.0458			-.1636							
90.000		.4681	.3678	.1859	.0745	.0296		-.2340	-.5879	-.4056	-.2692	-.0563			
120.000			.4045	.2062	.0771	.0621		-.2699	-.6086	-.5184	-.2411	-.0360			
140.000			.4589	.2750	.1801	.2376		-.3539	-.5682	-.7539	-.3136	-.1004			
150.000			.9032	.4082	.3214	.3794		-.5346	-.3711	-.6205	-.3879	-.3681	-.1393		
151.000								.2727							
156.000								.3849							
162.000									-.5050	-.6398	-.3472	-.3500	-.1489		
165.000															
169.000								.7533							
174.000															
180.000	1.3020	.7736	.5807	.4720	.4167	.4897	.8920	.7710							
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.000	.1198	.1827	.1851	.0985	-.3856	-.3777	-.3203	-.2765	-.2767
40.000	.0832	.1180	.1635	-.2476	-.3546	-.3442	-.3325		-.2944	-.2723
70.000	.0562	.0060	.0975	.1450	-.1144	-.1355	-.1536			
90.000	.0683	.0785	.0985	.1094	-.1323	-.1656	-.1806			
105.000			.1735	.0332	-.1799	-.2039	-.2068			
110.000										
120.000	.0638	.1620	.0692	-.1108	-.2879	-.2008	-.2879			
135.000			.4917	.2857	-.3471	-.2722	-.2681			
150.000	.1017	.2355	.4732	.4882	-.1648	-.2465	-.3788			
165.000	.1004		.4422	-.0420	-.2304	-.3427				
180.000	.0993	.2315	.4253	.5063						

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TABULATED PRESSURE DATA - 1A14A - VOL. 3

(R01032)

ARC11-716 1A14 01+112+SIEM5+AT10 CRB. FUSELAGE

ALPHAO(9) = -2.930 BETAO(9) = 6.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

Y/LB	.0030	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2750	.6907	.2269	.2366	.3535	.0000		-.1686	-.1701	-.3493	-.3012	-.2802	-.1132	-.0056	
20.000			.2245	.2034	.2977	-.6634		-.1764	-.1379	-.2503	-.3544	-.2231	-.0774	.0340	
40.000			.2462	.1757	.1348	-.3329		-.2332	-.1351	-.2503	-.3544	-.2231	-.0774	.0340	
55.000			.2802	.1392	.0896	-.1106		-.1489	-.1835	-.2390	-.3128	-.4464	-.2667	-.0166	
70.000			.3132	.1300	.0351	-.0097		-.2049	-.3488	-.6375	-.5661	-.2580	-.0060		
90.000		.3748	.3364	.1418	.0279	.0228		-.1699	-.4107	-.2984	-.8216	-.3886	-.0360		
120.000			.3928	.2128	.1145	.1822		.0377	-.9927						
140.000			.4493	.3707	.2620	.3321			-.3691	-.6459	-.3980	-.4194	-.1440		
150.000								.1994							
151.000								.5236							
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.2730	.7296	.3292	.4422	.3908	.4466	.8473	.7302	-.6472	-.4871	-.4024	-.3079	-.2143		
Y/LB	.6530	.7500	.7810	.6230	.6620	.9230	9.630	1.0080	1.0210	1.0480					

ALPHAO(9) = -2.960 BETAO(10) = 6.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2500	.6031	.1784	.2014	.3380	.0000		-.2031	-.2520	-.3281	-.2870	-.2775	-.1336	-.0526	
20.000			.1957	.1619	.3040	-.7281		-.2083	-.2214	-.3016	-.4364	-.2780	-.0903	.0161	
40.000			.1806	.1213	.1625	-.4245		-.2120	-.2037	-.3016	-.4364	-.2780	-.0903	.0161	
55.000			.1931	.0842	.0727	-.1715		-.1756	-.2135	-.2965	-.5530	-.4972	-.2345	-.0216	
70.000			.2337	.0670	.0045	-.0471		-.2484	-.2965	-.5530	-.4972	-.2345	-.0216		
90.000		.2411	.2397	.0727	-.0161	-.0119		-.2214	-.4370	-.6661	-.5982	-.2477	-.0223		



ARC11-716 1A14 O1-T12-S12M5-A110 CRB. FUSELAGE

(RE1632)

ALPHAO(5) = -2.900 BETAO (11) = 10.100

SECTION (1) CRIBTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1122	.1790	.1670	.2050	.2320	.3010	.3790	.4990	.5760
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PHI	165.000													
	166.000													
	174.000													
	160.000	1.1750	.6442	.4691	.3631	.3363	.4013	.7427	.6332					

X/LB	.6530	.7300	.7810	.8230	.8623	.9230	.9630	1.0020	1.0210	1.0480				
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PHI	.0000	.0012	.0064	.0170	.0180	.0114	.0369	.0628						
	40.000	.0443	.0947	.1324	.1469	.1202	.4950	.3415						
	70.000	.0012	.0232	.0166	.1732	.1604	.1992	.2068						
	90.000	.0265	.0716	.0517	.1182	.2117	.2470	.2303						
	105.000		.1416	.0497	.2481	.2705	.2674							
	110.000													
	120.000	.0265	.1600	.0212	.2520	.3436	.2994	.3742						
	135.000		.2491	.0784	.5678	.6065	.4939							
	150.000	.0175	.1793	.3816	.5855	.3924	.5129							
	165.000	.0176		.3606										
	180.000	.0478	.1185	.3413	.4214									

ALPHAO(6) = -.750 BETAO (1) = -10.040

SECTION (1) CRIBTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1790	.1670	.2050	.2320	.3010	.3790	.4990	.5760
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PHI	.0000	1.2070	.6835	.2914	.2261	.3677	.0000							
	20.000		.4030	.2789	.3430	-.0442								
	40.000		.6564	.3793	.3433	.2116								
	55.000		.8156	.5807	.4445	.3316								
	70.000		.8573	.6068	.4894	.3636								
	90.000	1.0690	.8310	.6196	.4607	.4113								
	120.000		.7388	.5273	.4294	.4797								
	140.000													
	150.000		.5429	.4227	.3727	.4416								
	151.000													
	156.000													
	162.000													
	165.000													
	169.000													
	174.000													
	180.000	1.2070	.7113	.3691	.3263	.3120	.3770							

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480				
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ARC11-716 1A14 01-712-31262-A710 CRG. FUSELAGE (R81832)

ALPHA(8) = -.740 BETA(2) = -8.040

SECTION / 11ORBITER FUSELAGE	DEPENDENT VARIABLE CP									
W/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0674	-.1455	.2760	.3041	-.1319	-.0135	.0694	-.0674		
135.000		.4555	.2082	-.0210	.0929	-.0306				
150.000	.0091	-.0708	.3083	.1930	.1665	.1543	-.1274			
165.000	.0049		.3113	.2643	.1904	-.2221				
180.000	.0096	.0992	.3296	.4173						

ALPHA(8) = -.720 BETA(3) = -3.990

SECTION / 11ORBITER FUSELAGE	DEPENDENT VARIABLE CP														
W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
020	1.2620	.7211	.3197	.2696	.4144	.0000		-.1692	-.0610	-.1005	-.1916	-.2000	-.0232	.1323	
20.000		.3985	.2946	.3643	-.2773			-.0990	-.0114	.0056	-.0319	-.1045	-.1185	-.1021	.2086
40.000		.5758	.3412	.3183	.0390			-.0731	-.0021						
95.000		.6816	.4375	.3399	.1643			.0864	.0304	-.3932	-.1431	-.1629	-.1029		
70.000		.7143	.4676	.3351	.2437	.1432		.1432	-.0050	-.3324	-.2193	-.2162	-.1094		
90.000		.8103	.6952	.4609	.3130	.2811		.1756	-.0162	-.2993	-.3456	-.2990	-.2099		
120.000		.6569	.4301	.3796	.4055	.3676		.3676	-.0396	-.1337	-.6577	-.9031	-.2747	-.2449	
140.000		.5482	.4265	.3682	.4326		.5140								
151.000							.7930								
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.2620	.7412	.4546	.3607	.3436	.4060	.9345	.6719	-.6570	-.5350	-.4420	-.3295	-.1691		
W/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

SECTION / 11ORBITER FUSELAGE	DEPENDENT VARIABLE CP									
W/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
000	.2204	.2545	.3508	.3551	-.3027	-.3430	-.3267	-.3300	-.3126	
40.000	.2307	.3655	.5712	.1642	-.3145	-.3570	-.3303	-.3009	-.2874	
70.000	-.0016	-.1617	-.2114	.2046	-.0219	-.0376	.0687			
90.000	.0385	-.1221	.0236	.2007	-.0713	-.0973	.0414			
105.000		.1972	.1171	-.1067	-.1192	-.0400				
110.000										
127.000	.0082	-.0974	.3167	.2905	-.1451	-.0428	-.1109	-.0610		
135.000			.2931	.2375	-.0931	.0556	-.0654			
150.000	.0573	.0639	.3706	.2613	.0737	.1002	-.1622			
165.000	.0629		.3531	.1814	.0931	-.2530				
180.000	.0649	.1682	.3296	.4360						



ARC11-716 1A14 06+712+512MS+AT10 ORB. FUSELAGE

(R61832)

ALPHAO (8) = -.710 BETAO (4) = -3.960

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0003	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2520	.3010	.3790	.4990	.5760
PWT															
.000	1.2060	.7567	.5134	.2669	.4164	.0000		-.1799	-.0592	-.1068	-.1840	-.2190	-.0246	.1188	
20.000		.3601	.2700	.3492	-.3497		-.0632		.0063						
40.000		.5265	.3111	.3034	-.0164		-.2133		-.0131	-.0642	-.1330	-.1600	-.1061	.1833	
50.000		.6173	.3626	.2906	.1092		-.0086		-.0335						
70.000		.6497	.4097	.2821	.1767		.0653		.0000	.3955	-.1853	-.1939	-.1126		
90.000	.6397	.6345	.4141	.2825	.2281		.1169		-.0483	-.3986	-.2762	-.2314	-.1207		
120.000	.6290	.4154	.3356	.3753			.3424		-.0545	-.3316	-.3667	-.2533	-.1930		
140.000									-.1176						
150.000	.5470	.4303	.3666	.4314				.4755	-.3914	-.6557	-.4681	-.2514	-.1692		
170.000							.7681								
190.000								.8290							
162.000									-.5195	-.5723	-.4569	-.2655	-.1957		
169.000							.9209								
174.000							.7210								
180.000	1.2880	.7540	.4827	.6036	.3616	.4224			-.6456	-.5648	-.3782	-.3293	-.1392		
W/LB	.6830	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0490					

PWT

.000	.2195	.2711	.3192	.3020	-.2170	-.3397	-.3069		-.3093	-.2937					
40.000	.2849	.3431	.5155	.1261	-.3070	-.3425	-.3111		-.2508	-.2843					
70.000	-.0727	-.1837	-.1030	.1936	-.0329	-.0227	.0402								
90.000	.0822	-.1272	.0469	.1799	-.0795	-.1012	-.0021								
105.000		.1067	.1019	-.1215	-.1208	-.0726		-.1730							
110.000								-.0638							
120.000	.0145	-.0097	.3025	.1902	-.1970	-.0606	-.1273								
135.000		.5484	.2927	-.1220	.0244	-.0914									
150.000	.0795	.1745	.4081	.3201	-.0325	.0318	-.1935								
165.000	.0821	.3647		.1112	.0456	-.2823									
180.000	.1000	.2191	.3808	.4344											

ALPHAO (8) = -.700 BETAO (5) = -2.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0080	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2520	.3010	.3790	.4990	.5760
PWT															
.000	1.3270	.7369	.2997	.2300	.3772	.0000		-.1976	-.0456	-.0970	-.1480	-.1655	-.0440	.0608	
20.000		.3941	.2485	.3417	-.4029		-.1836		-.0136						
40.000		.4822	.2746	.2799	-.0327		-.1949		-.0800	-.0562	-.1306	-.1653	-.0593	.1326	
50.000		.5549	.3255	.2648	.0648		.0270		-.0320						
70.000		.5811	.3493	.2271	.1236		-.0090		-.0109	-.4560	-.2319	-.2258	-.1240		
90.000	.7309	.5543	.3917	.2073	.1971		.0365		-.1014	-.4316	-.3151	-.2442	-.1233		

(0818382)

ARC11-716 1A14 06-718-51825-ATT10 ORB. FUSELAGE

ALPHAXI (B) = -.700 BETA0 (B) = -2.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
120.000			.5845	.3777	.2919	.3435		.2796		-.1268	-.3675	-.6162	-.2334	-.1463	
140.000										-.2023					
150.000			.5375	.4245	.3479	.4136		.4319		-.4703	-.6611	-.4566	-.2903	-.1217	
151.000								.7332							
156.000															
162.700															
165.000								.6072							
169.000															
174.000							.9275								
180.000	1.3270	.7531	.4961	.4192	.3703	.4316		.7510		-.6394	-.6376	-.3492	-.3261	-.1060	

W/LB .6030 .7300 .7610 .6230 .9680 .9230 .9630 1.0020 1.0210 1.0480

PHI	.0000	.2310	.2859	.2868	-.2485	-.3322	-.2901								
180.000															
185.000	.1887	.2310	.2859	.2868	-.2485	-.3322	-.2901								
190.000		.1885	.2326	.4149	.0090	-.3096	-.3242	-.2987							
195.000		-.0115	-.1930	-.0408	.1772	-.0444	-.0369	-.0376							
200.000	.0841	-.1087	.0537	.1579	-.0875	-.1020	-.0666								
205.000		.1625	.0971	-.1311	-.1299	-.1226									
210.000							-.1903								
220.000	.0293	.0774	.2542	.1275	-.1777	-.0900	-.1591								
230.000			.3077	.3167	-.1611	-.0319	-.1270								
235.000	.0721	.2236	.4117	.3646	-.0693	-.0195	-.2242								
240.000	.0800		.3916	.0723	-.0259	-.2517									
245.000	.0956	.2405	.4927												

ALPHAXI (B) = -.680 BETA0 (B) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
120.000			.2797	.2317	.3324	.0000		-.1232		-.0332	-.0871	-.1426	-.1630	-.0165	.0935
140.000			.3806	.2304	.3001	-.4650		-.1996		-.0407					
150.000			.4204	.2373	.2265	-.1131		-.2959		-.0276	-.1043	-.1988	-.2075	-.0190	.1264
151.000										-.0439					
156.000			.4826	.2666	.1778	.0189		-.0682		-.1234	-.4802	-.2633	-.2481	-.1214	
170.000			.5112	.2786	.1590	.0629		-.0790		-.1738	-.4631	-.3746	-.2993	-.1141	
180.000		.6817	.4911	.2919	.1595	.1443		-.0319		-.2279	-.4424	-.6446	-.2261	-.1196	
185.000			.5346	.3265	.2358	.3064		-.2236		-.3174					
190.000										-.3299	-.6806	-.4668	-.2787	-.1099	
195.000			.5177	.4094	.3248	.3947		.3778							
200.000															
205.000															
210.000															
215.000															
220.000															

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 7A14 54-112-812M5-AT10 ORG. FUSELAGE (061832)

ALPHAX 00 = -.000 BETA0 (0) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/L	.0000	.0000	.0230	.0470	.0700	.1120	.1790	.2030	.2520	.3010	.3790	.4990	.5760
PMT													
165.000						.7926							
166.000													
174.000						.9036							
180.000	1.3020	.7301	.5023	.4106	.3703	.4361	.7721						
W/L	.0000	.7300	.7010	.6230	.6020	.9230	.9630	1.0020	1.0210	1.0460			

PMT													
40.000	.1987	.1615	.1610	.0669	-.3079	-.3243	-.3064						
70.000	.1468	.2016	.2719	-.0283	-.3077	-.3166	-.2667						
90.000	-.0153	-.1061	.0299	.1503	-.0675	-.0633	-.1075						
105.000	.0806	-.0703	.0619	.1136	-.0961	-.1253	-.1275						
110.000			.1408	.0917	-.1352	-.1462	-.1532						
120.000	.0476	.1367	.1637	.0533	-.1997	-.1262	-.1966						
135.000		.4270	.3332	-.2012	-.1003	-.1777	-.2745						
150.000	.0761	.2260	.4160	.4196	-.1304	-.1130	-.2625						
165.000	.0817	.3967	.3967	.0249	-.1221	-.3093							
180.000	.0857	.2360	.3974	.6621									

ALPHAX 00 = -.000 BETA0 (7) = 2.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/L	.0000	.0000	.0230	.0470	.0700	.1120	.1790	.2030	.2520	.3010	.3790	.4990	.5760
PMT													
20.000													
40.000													
55.000													
70.000													
90.000													
120.000													
140.000													
150.000													
174.000													
180.000	1.3830	.7153	.2683	.2264	.3734	.0000							
W/L	.0000	.0000	.0230	.0470	.0700	.1120	.1790	.2030	.2520	.3010	.3790	.4990	.5760

PMT													
80.000													
95.000													
100.000													
120.000													
140.000													
150.000													
174.000													
180.000													
W/L	.0000	.0000	.0230	.0470	.0700	.1120	.1790	.2030	.2520	.3010	.3790	.4990	.5760

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 1A14 CR-712-31823-710 CRB. PURSLAGE (861832)

ALPHA08 = -.000 BETA0 (7) = 2.030

PARTITION (11) CRIBBITER PURSLAGE DEPENDENT VARIABLE CP

W/LB	.6930	.7300	.7610	.8230	.8620	.9030	.9430	1.0020	1.0210	1.0490
PH1										
.000	.1805	.1903	.1921	.0104	-.3050	-.3235	-.2997			
20.000	.1294	.1333	.1799	-.1805	-.5093	-.3139	-.3093			
40.000	-.0019	-.0837	.0199	.1930	-.0923	-.1145	-.1424			
60.000	.0448	-.0071	.0725	.0967	-.1187	-.1516	-.1816			
80.000			.1442	.0279	-.1811	-.1905	-.1878			
100.000										
120.000	.0830	.1967	.1498	-.0109	-.2954	-.1704	-.2348			
140.000			.3071	.3180	-.2797	-.1786	-.2312			
160.000	.1040	.2342	.4417	.6274	-.1404	-.2018	-.3239			
180.000	.0897		.4133		-.0204	-.1992	-.3343			
200.000	.0833	.2390	.4001	.4821						

ALPHA08 = -.710 BETA0 (8) = 4.060

SECTION (11) CRIBBITER PURSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1980	.1670	.1760	.2030	.2220	.3010	.3780	.4990	.3760
PH1															
.000	1.3088	.6960	.2421	.2219	.3243	.0020									
20.000			.2498	.2098	.2709	-.0016									
40.000			.2929	.1877	.1798	-.2401									
60.000			.3394	.1674	.0906	-.1078									
80.000			.3716	.1653	.0531	.0116									
100.000			.4080	.3032	.1968	.0422									
120.000			.4300	.2419	.1300	.2137									
140.000			.4572	.3600	.2643	.3343									
160.000															
180.000															
200.000															
PH1															
.000	1.3088	.6960	.2421	.2219	.3243	.0020									
20.000			.2498	.2098	.2709	-.0016									
40.000			.2929	.1877	.1798	-.2401									
60.000			.3394	.1674	.0906	-.1078									
80.000			.3716	.1653	.0531	.0116									
100.000			.4080	.3032	.1968	.0422									
120.000			.4300	.2419	.1300	.2137									
140.000			.4572	.3600	.2643	.3343									
160.000															
180.000															
200.000															
PH1															
.000	1.0419	.1612	.2021	.1274	-.3277	-.3215	-.3166								
20.000	.1882	.1404	.1848	-.2480	-.4677	-.3786	-.2504								
40.000	.0210	-.0744	.0137	.1173	-.1263	-.1901	-.1687								
60.000	.0406	.0012	.0002	.0005	-.1901	-.1831	-.1970								
80.000			.1413	.0046	-.1929	-.2189	-.2206								
100.000															
120.000															
140.000															
160.000															
180.000															
200.000															



MFC11-716 1A14 OR-T18V-S18E2-RATIO ORG. FUEL/BLAZE (861822)

ALPHA: 00 = -.750 BETA: 1101 = 8.100

SECTION (11) ORBITER FUEL/BLAZE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0750	.1120	.1590	.1870	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PH1															
.000	1.2890	.6219	.1803	.1999	.3080	.0000		.2055		-.2245	-.3511	-.2444	-.1506	-.1220	-.0390
20.000			.1334	.1296	.2703	-.7179		-.2299		-.1700					
40.000			.1375	.0922	.1648	-.4298		-.2274		-.1992	-.2769	-.4039	-.2391	-.0823	.0295
55.000			.1755	.0912	.0461	-.2083		-.1871		-.1987					
70.000			.2153	.0354	-.0197	-.0779		-.2786		-.2323	-.0344	-.4819	-.2778	.0191	
84.000		.2144	.2404	.0486	-.0413	-.0314		-.2243		-.4456	-.0886	-.3884	-.2588	.0173	
100.000			.2994	.1155	.0000	.1059		-.0341		-.4722	-.0594	-.0264	-.3416	-.0494	
140.000										-.6563					
150.000			.3433	.2792	.1979	.2322		.1179		-.6372	-.7210	-.4454	-.4778	-.0999	
171.000								.4995							
196.000									.2754						
172.000															
169.000															
169.000															
174.000															
160.000															
W/LB	.0000	.7000	.7010	.6230	.6620	.9230	.9430	1.0000	1.0210	1.0490					
PH1															
.073	.0882	.1289	.1796	.1688	-.2822	-.3596	-.3400			-.3167	-.2794				
40.000	.0726	.1220	.1794	-.3223	-.3002	-.4381	-.3183			-.3373	-.3478				
70.000	-.0082	-.0179	.0129	.1364	-.1513	-.1859	-.2101								
90.000	.0328	.0464	.0326	.0919	-.1854	-.2364	-.2370								
105.000			.1337	.0184	-.2229	-.2567	-.2698								
110.000															
120.000	.0490	.1414	.0718	-.1798	-.3089	-.2823	-.3332								
135.000			.2081	.1973	-.0918	-.4930	-.4132								
150.000	.0627	.1796	.3046	.9108	-.2464	-.3486	-.4727								
165.000	.0413		.3691		-.1337	-.3311	-.3164								
160.000	.2895	.1863	.3397	.4504											

ALPHA: 00 = -.750 BETA: 1111 = 10.100

SECTION (11) ORBITER FUEL/BLAZE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0750	.1120	.1590	.1870	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PH1															
.000	1.1680	.9486	.0761	.1134	.2932	.0000		-.2990		-.3279	-.4753	-.3094	-.2316	-.2267	-.0473
20.000			.0484	.0769	.2424	-.7703		-.2335		-.3284					
40.000			.0292	.0232	.1373	-.3172		-.2335		-.2367	-.3404	-.4599	-.2803	-.1099	.0181
55.000			.0918	-.0181	.0441	-.2813		-.2009		-.2197					
70.000			.1304	-.0421	-.0326	-.1148		-.2787		-.3031	-.0508	-.3223	-.2493	-.0387	
90.000		.0884	.1630	-.0364	-.0886	-.0381		-.2756		-.4812	-.7140	-.3932	-.2373	-.0243	



ARC11-716 1A14 OR-T12-S12E25-AT110 ORB. FUSELAGE (RB1932)

ALPHAC(7) = 2.050 BETA(1) = -10.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
165.000															
169.000															
174.000															
180.000	1.1990	.6421	.3061	.2399	.2300	.3140	.6614	.8029							
X/LB	.6530	.7900	.7610	.8250	.8620	.9290	.9690	1.0020	1.0210	1.0480					
PHI															
.000	.2669	.3326	.4062	.4406	-.3057	-.3916	-.3423								
40.000	.5954	.4657	.6649	.2654	-.3633	-.4272	-.3620								
70.000	-.0433	-.2791	-.3130	.1711	-.0230	-.0172	.1057								
90.000	-.0324	-.1632	-.2467	.1690	-.0656	-.1265	.1155								
105.000		.0910	.0720	-.0966	-.1607	.1006									
110.000															
120.000	-.3866	-.2669	.1950	.3174	-.1634	-.0596	.1010								
135.000			.2995	.0825	-.2036	.0716	-.0272								
150.000	-.0628	-.1320	.1696	.0203	.1625	.1606	-.1251								
165.000	-.0391		.2012	.2713	.518	-.2054									
180.000	-.0069	.0799	.1955	.2426											

ALPHAC(7) = 2.060 BETA(2) = -6.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0030	.0260	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	.230	.7251	.3056	.2193	.3611	.0000									
70.000		.4117	.2675	.3294	-.2174										
40.000		.6390	.3983	.3104	.0750										
55.000		.7992	.4975	.3697	.2032										
70.000		.7733	.5236	.3620	.2670										
90.000	.9610	.7323	.5161	.3436	.3005										
120.000		.6590	.417	.3372	.3760										
140.000															
150.000		.4723	.5455	.2906	.3722										
191.000															
146.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.2230	.6607	.3534	.2663	.2560	.3330	.6996								
X/LB	.6530	.7900	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					



ARC11-716 1A14 01+T12+S12E25+AT10 CR8. FUSELAGE

(MB1932)

ALPHA(7) = 2.060 BETA(3) = -5.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L5	.6530	.7300	.7610	.6270	.6620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.1201	-.1237	.2327	.2441	-.1616	-.0909	-.1463	-.0600		
135.000		.4649	.2012	-.1566	.0229	-.0919				
150.000	.0306	.0797	.3244	.1883	.0121	.0722	-.1797			
165.000	.0662		.3025		.1404	.0599	-.2638			
180.000	.0812	.1667	.2974	.3430						

ALPHA(7) = 1.940 BETA(4) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L5	.0000	.0060	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3070	.7461	.2640	.2249	.3624	.0000		-.2181		-.0337	-.0792	-.1627	-.1512	-.0024	.1379
20.000		.3623	.2344	.3360	-.3376			-.4693		.0173					
40.000		.3354	.2961	.2637	-.0353			-.3096		.0557	-.0345	-.1049	-.1266	-.0455	.2013
55.000		.6123	.3769	.2747	.0755			-.0123		.0166					
70.000		.6356	.3911	.2540	.1474			.0701		.0175	-.3707	-.1676	-.1736	-.1366	
90.000		.6066	.6132	.3966	.2196	.1841		.1103		-.0449	-.3993	-.2043	-.2175	-.1379	
120.000		.5757	.3596	.2768	.3202			.3266		-.0661	-.3460	-.5649	-.2940	-.2374	
140.000										-.1341					
150.000		.4612	.3569	.2670	.3687					-.4120	-.6670	-.5102	-.2655	-.1326	
151.000								.4561							
156.000								.7315							
162.000															
165.000															
169.000															
174.000															
180.000	1.3070	.6669	.4111	.3342	.2666	.3654	.6991	.6012							
PHI															
.000	.6530	.7300	.7610	.6230	.6620	.9233	.9630	1.0020	1.0210	1.0480					
40.000		.2401	.2922	.3356	.3142	-.2036	-.3371	-.2993							
70.000		.2663	.3786	.5462	.1433	-.3097	-.3436	-.3069							
90.000		-.0432	-.2403	-.2309	.1570	-.0591	-.0934	-.0975							
105.000		-.0426	-.1800	-.0274	.1446	-.1147	-.1603	-.1169							
110.000			.1472	.0363	-.1920	-.1902	-.1506								
120.000		-.0379	-.0324	.2535	.1794	-.2033	-.1260	-.1679							
135.000			.4921	.2404	-.1636	-.0291	-.1230								
150.000		.0306	.1326	.3375	.2620	-.0662	.0054	-.2127							
165.000		.0427		.3392		.0760	-.0036	-.2697							
180.000	.0681	.2042	.3336	.3614											

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 1A14 01+112+S12E2+AT10 ORB. FUSELAGE (R81832)

ALPHAO (7) = 1.990 BETAO (5) = -2.000

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.3160	.7412	.2669	.2047	.3110	.0000	-.1483	-.0244	-.0536	-.1032	-.1263	-.0203	-.0803	.1090
20.000		.3339	.5278	.2848	-.3902	-.3180	-.0027	-.2816	-.0071	-.0494	-.1353	-.1439	-.0363	-.1666	
40.000		.4674	.2915	.2997	-.0702	-.0417	.0247	-.0419	.0141	-.4246	-.2239	-.2199	-.1431		
55.000		.5455	.3112	.2176	.0338	-.0076	-.0696	-.4155	-.1376	-.3763	-.6197	-.2636	-.1669		
70.000		.3653	.3258	.1925	.1078	.2717	-.2227	-.4967	-.6956	-.5034	-.2644	-.1179			
90.000		.5460	.3187	.1656	.1436										
120.000		.3556	.3233	.2312	.2922										
130.000		.4749	.3546	.2725	.3566										
151.000						.4149									
156.000						.4741									
162.000															
167.000															
169.000															
174.000															
190.000		1.3160	.6976	.4297	.3494	.2963	.3752	.7903	-.8652	-.6790	-.3991	-.3141	-.0966		
190.000		.6530	.7500	.7610	.8230	.8620	.9230	1.0020	1.0210	1.0480					

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.963	.2466	.3001	.2796	-.2421	-.3269	-.2917	-.2899	-.2616	-.0199	-.0951	-.1177	.0039	.1097
20.000		.2224	.3200	.4436	.0283	-.3074	-.3227	-.2925	-.2772	-.2689	-.0206	-.0036	-.1696	-.1915	-.1344
40.000		-.0362	-.2425	-.1632	.1466	-.0713	-.0967	-.1042			.0199	-.0026	-.4561	-.2817	-.1261
55.000		-.0214	-.1174	-.0093	.1290	-.1165	-.1532	-.1311			-.0026	-.4561	-.2817	-.2582	-.1261
70.000											-.1213	-.4470	-.3458	-.2806	-.1181
90.000															
110.000															
120.000		-.0163	.0246	.2155	.1214	-.2097	-.1415	-.1967	-.2172						
135.000				.4449	.2793	-.1966	-.0717	-.1654							
150.000		.0455	.1916	.5696	.3156	-.0932	-.0709	-.2475							
165.000		.0607	.3426	.3426	.0448	-.0755	-.2816								
190.000		.0727	.2080	.3462	.4159										

ALPHAO (7) = 1.990 BETAO (5) = .040

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.3260	.7990	.2987	.1927	.2756	.0000	-.1244	-.0199	-.0951	-.0960	-.1177	.0039	.1097	
20.000		.3006	.1960	.2463	-.4362	-.1725									
40.000		.4039	.2150	.1624	-.1204	-.2902									
55.000		.4723	.2502	.1466	-.0062	-.0643									
70.000		.4966	.2589	.1232	.0514	-.0947									
90.000		.6391	.4348	.2566	.0939	.1096									

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ARC11-716 1A14 01+112+312E3+AT10 CRB. FUSELAGE

(R21832)

ALPHAO (7) = 1.930 BETA0 (6) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2920	.3010	.3790	.4570	.5780
PHI															
120.000			.4924	.2684	.1915	.2629	.2207			-.2323	-.4307	-.6361	-.2361	-.1274	
140.000										-.3220					
150.000			.4574	.3377	.2470	.3394				-.5562	-.7062	-.4998	-.2687	-.1011	
151.000							.6752	.3649							
156.070								.4363							
162.000										-.5600	-.8131	-.4172	-.2935	-.1014	
165.000							.7768								
169.000															
174.000															
180.000	1.3880	.9822	.4316	.3470	.2824	.3781	.8602	.7311		-.7316	-.6647	-.3947	-.3072	-.0916	
W/LB	.6630	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

0.000	.1787	.1920	.1879	.0632	-.3069	-.3194	-.3086								
40.000	.1716	.2205	.2801	-.0572	-.3094	-.3217	-.2863								
70.000	-.0721	-.2359	-.1000	.1313	-.0862	-.1236	-.1469								
90.000	-.0272	-.1463	.0037	.0899	-.1289	-.1735	-.1648								
103.000			.1029	.0016	-.1662	-.1961	-.1943								
110.000															
120.000	.0103	.0814	.0750	.0750	-.2274	-.1886	-.2236								
135.000			.3730	.3107	-.2233	-.1313	-.2104								
150.000	.0507	.1931	.3469	.3465	-.1160	-.1435	-.2754								
165.000	.0663		.3441		-.0103	-.1303	-.3063								
170.000	.0706	.1997	.3431	.4338											

ALPHAO (7) = 1.930 BETA0 (7) = 2.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.5780
PHI															
120.000	1.3160	.7265	.2478	.1931	.2790	.0000									
20.000			.2747	.1926	.2424	-.3375									
40.000			.3466	.1658	.1623	-.2042									
55.000			.3963	.1948	.1046	-.0681									
70.000			.4219	.1974	.0736	.0015									
90.000		.3414	.3634	.1979	.0360	.0715									
120.000			.4422	.2359	.1902	-.2201									
140.000															
150.000			.4340	.3241	.2337	.3164									
151.000															
156.000															
162.000															



ARC11-716 1A14 01-112-51203-AT10 ORD. FUSELAGE (R81032)

ALPHAO (7) = 1.930 BETAO (7) = 2.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PH1															
168.000															
169.000															
174.000								.7491							
180.000	1.3180	.6747	4.409	.3545	.2939	.3743	.8624	.7427							
X/LB	.6280	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PH1															
.000	.1810	.2099	.2063	.0775	-.2983	-.3325	-.2998								
40.000	-.1326	-.1756	.1925	-.1449	-.3108	-.3180	-.3069								
70.000	-.0703	-.1554	-.0478	-.1144	-.1117	-.1549	-.1797								
90.000	-.0223	-.0792	.0819	.0294	-.1425	-.1982	-.1936								
105.000		.1008	-.0077	-.1834	-.2167	-.2276									
110.000															
120.000	.0364	.1146	.1651	-.0077	-.2538	-.2079	-.2670								
135.000				.4436	.3082	-.2916	-.1957	-.2569							
150.000	.0749	.1951	.4002	.3820	-.1692	-.2307	-.3441								
165.000	.0791			.3638	-.0486	-.2335	-.3566								
170.000	.0756	.2610	.3929	.4077											

ALPHAO (7) = 1.930 BETAO (8) = 4.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0700	.0060	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PH1															
.000	1.3030	.6885	.2193	.1866	.2657	.0000									
20.000			.2361	.1779	.2274	-.9971									
40.000			.2891	.1617	.1417	-.2668									
55.000			.3275	.1432	.0651	-.1161									
70.000			.3537	.1401	.0307	-.0353									
90.000		.4366	.3221	.1590	.0130	.0249									
120.000			.3923	.1941	.1029	.1788									
140.000															
150.005			.4019	.3024	.1941	.2624									
151.000															
156.000															
162.000															
169.000	1.3880	.6532	.4346	.3450	.2814	.3805									
169.000															
174.000															
180.000	1.3880	.6530	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480				

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(R01832)

ARC11-76 1A14 ORBITER FUELS-AT10 ORB. FUELS

ALPHA (7) = 1.930 BETA (8) = 4.070

SECTION (1) ORBITER FUELS

W/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PH1										
.000	.1887	.2042	.2506	.1392	-.3493	-.3825	-.2968		-.2387	-.2470
40.000	.1330	.1669	.2090	-.2229	-.3336	-.3375	-.3281		-.2740	-.2530
70.000	-.0195	-.1443	-.0535	.0868	-.1914	-.1808	-.1997			
90.000	.0387	-.0570	.0147	.0422	-.1735	-.2220	-.2140			
105.000		.0868	-.0296	-.2192	-.2443	-.2454				
110.000										-.2968
120.000	.0909	.1150	.1291	-.0873	-.3087	-.2456	-.3036			-.3093
135.000			.4486	.2730	-.3621	-.2766	-.3173			
150.000	.1130	.1972	.3723	.3643	-.2005	-.2853	-.3968			
165.000	.1091		.3432	-.0684	-.2760	-.3399				
180.000	.1050	.1949	.3368	.3996						

ALPHA (7) = 1.960 BETA (8) = 6.100

SECTION (1) ORBITER FUELS

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PH1															
.000	1.2880	.0875	.1817	.1632	.2397	.0000		-.2100	-.0475	-.1437	-.0360	-.1923	-.0721	.0474	
20.000			.1763	.1487	.2167	-.0860		-.2160	-.0942	-.1748	-.2237	-.2008	-.0246	.0746	
40.000			.2133	.1243	.1279	-.3301		-.1755	-.1035	-.1175	-.2392	-.4107	-.3116	-.0330	
50.000			.2460	.0896	.0353	-.1901		-.2330	-.1175	-.2392	-.3582	-.4107	-.3116	-.0330	
70.000			.2768	.0796	-.0071	-.0964		-.1800	-.3591	-.6063	-.4762	-.2626	-.0179		
90.000		.3121	.2801	.0932	-.0292	-.0367		-.0410	-.4236	-.6505	-.7611	-.2741	-.0289		
120.000			.3248	.1380	.0407	.1248			-.6180						
140.000			.3502	.2478	.1816	.2453			-.6542	-.7105	-.4627	-.3929	-.1023		
151.000								.1747							
156.000								.3079							
162.000									.2940						
165.000										-.5846	-.7154	-.4543	-.4109	-.1325	
169.000															
174.000						.6139									
180.000	1.2800	.6075	.4068	.3150	.2351	.3345									
PH1															
.000	.1381	.1649	.2183	.1842	-.3297	-.3673	-.3060		-.2874	-.2521					
40.000	.1171	.1528	.1295	-.2737	-.3546	-.3616	-.3483		-.2832	-.2635					
70.000	-.0347	-.1095	-.0342	.0794	-.1663	-.1914	-.2002								
90.000	.0165	-.0310	.0163	.0415	-.1974	-.2369	-.2306								
105.000			.0902	-.0245	-.2394	-.2630	-.2517								
110.000															



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MRC-1-716 1A14 01-712-51285-A110 ORB. FUSELAGE

(RB1838)

ALPHA(X) T = 1.980 BETA(D) (S) = 6.107

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6930	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.0742	.1135	.1147	-.1171	-.3240	-.2787	-.3580	-.3048		
135.000			.3088	.2793	-.4005	-.3981	-.3706			
150.000	.0931	.1962	.3001	.3709	-.2272	-.3309	-.4308			
165.000	.0893		.3060		-.1203	-.3060	-.3243			
180.000	.0854	.1992	.3106	.3773						

ALPHA(X) T = 1.930 BETA(D) (S) = 6.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3750	.4990	.5760
PHI															
.000	1.2120	.8617	.1337	.1215	.2463	.0000		-.2393		-.1983	-.3036	-.1437	-.1311	-.1180	-.0023
20.000			.1043	.0930	.2219	-.7999		-.2574		-.1456					
40.000			.1107	.0530	.1232	-.4920		-.2469		-.1792	-.2253	-.2633	-.2245	-.0479	.0992
55.000			.1473	.0095	.0142	-.2632		-.2095		-.1680					
70.000			.1864	-.0056	-.0414	-.1415		-.3027		-.2790	-.9979	-.4563	-.3085	.0047	
90.000	.1688		.2054	.0072	-.0799	-.0839		-.2444		-.4403	-.8825	-.3238	-.2621	.0338	
120.000			.2491	.0638	-.0293	.0721		-.0460		-.4895	-.6957	-.8636	-.2953	.0104	
140.000			.2893	.2132	.1139	.1972			.0970	-.6799	-.7930	-.4993	-.5040	-.0326	
150.007															
156.000								.4401							
162.000									.2439						
165.000										-.6408	-.9721	-.5053	-.4292	-.1037	
169.000															
174.000							.7346								
180.000	1.2120	.5826	.3739	.2816	.2231	.3065				-.7129	-.6247	-.5296	-.3643	-.2092	

ALPHA(X) T = 1.930 BETA(D) (S) = 6.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6930	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	1.011	.1964	.1947	.1824	-.3431	-.3799	-.3147		-.2798	-.2997
40.000	.1029	.1453	.1965	-.3336	-.3737	-.3798	-.3656		-.2934	-.2763
70.000	-.0484	-.1025	.0318	.0901	-.1874	-.2208	-.2389			
90.000	-.0041	-.0342	.0199	.0648	-.2129	-.2787	-.2706			
105.000			.0824	-.0011	-.2715	-.3183	-.3121			
110.000								-.2646		
120.000	.0353	.0828	.1544	-.0911	-.3189	-.3157	-.3749		-.2845	
135.000			.2288	.1813	-.4541	-.4204	-.4382			
150.000	.0458	.1394	.2309	.3808	-.2577	-.3625	-.4581			
165.000	.0402		.2369		-.1658	-.3308	-.3274			
180.000	.0232	.1098	.2326	.3266						

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 AR11-716 1A14 01-712-SIDERS-AT10 CRB. FUSELAGE (R01832)

ALPHAO (7) = 1.940 BETA0 (11) = 10.140

SECTION (1) = 1108BITTER FUSELAGE DEPOSIT VARIABLE CP

X/LB	.0000	.0080	.0270	.0470	.0700	.1120	.1590	.1870	.2090	.2320	.3010	.3790	.4990	.5780
PHI	1.1410	.5733	.0755	.0601	.2122	.0000								
20.000	.0117	.0261	.2335	-.7869										
40.000	-.0114	-.0190	.1223	-.5903										
55.000	.0375	-.0971	.0003	-.3114										
70.000	.0926	-.0646	-.0754	-.1682										
90.000	.0096	.1252	-.0788	-.1240	-.0966									
127.000	.1621	-.0152	-.1115	.0308										
140.000	.1726	.1329	.0573	.1471										
150.000														
151.000														
156.000														
162.000														
165.000														
168.000														
174.000														
180.000														
X/LB	1.1410	.4842	.3253	.2387	.1889	.2833	.6875	.5905						
	.6537	.7300	.7010	.6250	.6620	.9230	1.0210	1.0480						
PHI	.0681	.1205	.1982	.1417	-.2879	-.3926	-.3522							
40.000	.1015	.1482	.1029	-.3332	-.5175	-.4448	-.3109							
70.000	-.0406	-.1110	-.0284	.0995	-.2051	-.2300	-.2581							
90.000	-.0011	-.0281	.0130	.0845	-.2547	-.3035	-.3146							
105.000		.0419	.0470	-.3390	-.3827	-.3981								
110.000														
120.000	-.0465	.0044	.1795	-.1026	-.3332	-.3362	-.3932							
135.000			.2465	.0704	-.4801	-.4456	-.4731							
150.000	.0292	.1244	.1847	.2459	-.3049	-.4410	-.4432							
165.000	.0213		.1882		-.2251	-.4045	-.2840							
180.000	-.0099	.0910	.2014	.2837										

ALPHAO (8) = 3.970 BETA0 (1) = -9.990

SECTION (1) = 1108BITTER FUSELAGE DEPOSIT VARIABLE CP

X/LB	.0000	.0090	.0250	.0470	.0700	.1120	.1590	.1870	.2090	.2320	.3010	.3790	.4990	.5780
PHI	1.1680	.7275	.2880	.1725	.3216	.0000								
20.000	.4280	.2482	.2929	-.1196										
40.000	.8899	.3878	.3111	.1285										
55.000	.8419	.5676	.4169	.2372										
70.000	.8319	.5883	.4126	.2901										
90.000	1.0310	.7646	.5642	.3639	.3145									
X/LB	.0687	.0090	.0250	.0470	.0700	.1120	.1590	.1870	.2090	.2320	.3010	.3790	.4990	.5780
PHI	.0068	-.2142	-.1107	-.0627	.0403	.1807								
20.000	.1765													
40.000	-.0345	-.0167	-.0707	-.0760	.0123	.3047								
55.000	.1029													
70.000	.1289	-.2383	.0091	-.0606	-.1204									
90.000	.1047	-.2601	-.0580	-.1176	-.1423									



ARC11-716 1A14 OR-T12-SIZES+ATIO CRE. PURCHASE (RE1032)

ALPHA(0) = 3.970 BETA(1) = -9.990

SECTION (1) - CRITTER PURCHASE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PMT															
120.000															
140.000															
170.000															
191.000															
196.000															
165.000															
169.000															
174.000															
160.000															
W/LB	1.168E	.7847	2.300	.1626	.1706	2.883	.648E	.920	.920	1.0220	1.0210	1.0480			
PMT															
.000															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHA(0) = 3.990 BETA(2) = -8.000

SECTION (1) - CRITTER PURCHASE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PMT															
.000															
.000															
.000															
50.000															
70.000															
90.000															
120.000															
140.000															
150.000															
160.000															
W/LB	1.2150	.7401	.3017	.2004	.3442	.0000									
PMT															
.000															
.000															
.000															
50.000															
70.000															
90.000															
120.000															
140.000															
150.000															
160.000															

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ARC11-716 IAI4 DISTURBANCES-RATIO CRG. FUELSAGE (M81832)

ALPHAX (1) = 3.990 BETA (2) = -0.000

SECTION (1) ORBITER FUELSAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1990	.1670	.1750	.2030	.2350	.3010	.3790	.4990	.9790
PHI															
166.000															
168.000															
174.000															
190.000	1.2130	.6116	.3960	.2299	.1923	.2610									
W/LB	.6330	.7900	.7610	.6230	.6620	.9230	.9430	1.0020	1.0210	1.0460					
PHI															
166.000															
168.000															
174.000															
190.000	1.2130	.6116	.3960	.2299	.1923	.2610									

ALPHAX (2) = 3.970 BETA (3) = -0.000

SECTION (2) ORBITER FUELSAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1790	.1670	.1760	.2070	.2350	.3010	.3790	.4990	.9790
PHI															
166.000															
168.000															
174.000															
190.000	1.2130	.6116	.3960	.2299	.1923	.2610									
W/LB	.6330	.7900	.7610	.6230	.6620	.9230	.9430	1.0020	1.0210	1.0460					
PHI															
166.000															
168.000															
174.000															
190.000	1.2130	.6116	.3960	.2299	.1923	.2610									

ALPHAX (3) = 3.970 BETA (3) = -0.000

SECTION (3) ORBITER FUELSAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1790	.1670	.1760	.2070	.2350	.3010	.3790	.4990	.9790
PHI															
166.000															
168.000															
174.000															
190.000	1.2130	.6116	.3960	.2299	.1923	.2610									
W/LB	.6330	.7900	.7610	.6230	.6620	.9230	.9430	1.0020	1.0210	1.0460					
PHI															
166.000															
168.000															
174.000															
190.000	1.2130	.6116	.3960	.2299	.1923	.2610									



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ALPHAO (1) = 3.970 BETA0 (3) = -0.073

SECTION (1) 11/3BITER PUBLCLAE DEPENDENT VARIABLE CP

W/LB	.6990	.7300	.7910	.8230	.8620	.9030	.9430	1.0000	1.0210	1.0400
PHI										
.000	.2982	.3118	.3682	.3982	-.3163	-.3397	-.3155		-.3118	-.2997
40.000	.3029	.4297	.6009	.5026	-.3247	-.3957	-.3175		-.2836	-.2723
70.000	-.0775	-.2481	-.3287	.1371	-.0871	-.1145	-.1196			
90.000	-.0437	-.2039	-.1391	.1016	-.1800	-.1872	-.1408			
105.000			.1201	-.0179	-.1307	-.2341	-.1857			
110.000								-.1785		
120.000	-.1245	-.1744	.2085	.2294	-.2190	-.1924	-.1835		-.1423	
135.000			.4096	.1374	-.2425	-.0127	-.1259			
150.000	.0222	.0480	.2911	.1348	-.0422	.0345	-.2026			
165.000	.0480		.2708		.1015	.0186	-.2810			
190.000	.0489	.1389	.2982	.2995						

ALPHAO (1) = 3.930 BETA0 (4) = -3.990

SECTION (1) 11/3BITER PUBLCLAE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3050	.7164	.2323	.1603	.3074	.0000		-.2229	-.4884	-.0291	-.0403	-.0796	-.0882	.0182	.1449
20.000		.3806	.2124	.2637	-.3014			-.4884		.0801					
40.000			.3843	.2487	-.0360			-.3346		.1312	-.0430	-.1196	-.1191	-.0111	-.2111
55.000			.0291	.3403	.2639	.0829		-.0927		.0782					
70.000			.6427	.3678	.2337	.1273		.0382		-.0773	-.3433	-.1489	-.1601	-.1751	
90.000		.6196	.6542	.3657	.2038	.1582		.0896		-.1040	-.3913	-.2034	-.2117	-.1683	
120.000			.5482	.3146	.2321	.2789		.3808		-.0476	-.3616	-.5618	-.3571	-.2751	
140.000										-.1582					
150.000		.4382	.3029	.2229	.3196					-.4333	-.7211	-.5579	-.2946	-.1319	
170.000								.7512							
190.000									.4979						
210.000										-.2818	-.0683	-.5376	-.3071	-.1248	
230.000															
250.000										-.0924	-.6911	-.6753	-.3234	-.1022	

ALPHAO (1) = 3.970 BETA0 (3) = -0.073

SECTION (1) 11/3BITER PUBLCLAE DEPENDENT VARIABLE CP

W/LB	.6990	.7300	.7910	.8230	.8620	.9030	.9430	1.0000	1.0210	1.0400
PHI										
.000	.2399	.2997	.3349	.3143	-.2116	-.3340	-.3014		-.2933	-.2939
40.000	.2774	.3829	.5382	.1369	-.3129	-.3366	-.3035		-.2782	-.2710
70.000	-.0489	-.2946	-.2342	.1802	-.0902	-.1315	-.1366			
90.000	-.0381	-.2173	-.0821	.0487	-.1453	-.1997	-.1339			
105.000			.1137	-.0447	-.1781	-.2392	-.1549			
110.000								-.8001		

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ARC11-716 1A14 04-718-812M3-AT10 CRG. PUSCLAGE (021832)

ALPHAO (1) = 3.93E BETAO (4) = -3.990

SECTION (1) ORBITER PUSCLAGE DEPENDENT VARIABLE CP

W/LB	.6880	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0490
PWT										
120.000	-.7963	-.1082	.1963	.1671	-.2410	-.1739	-.2081	-.1972		
135.000				.4399	.1973	-.2431	-.0651	-.1347		
150.000	.0296	.1337	.3109	.2287	-.1086	-.0493	-.2351			
165.000	.0712	.3032	.3032	.3431	-.0339	-.3039				
180.000	.0685	.1753	.3004	.3643						

ALPHAO (1) = 3.930 BETAO (3) = -2.000

SECTION (1) ORBITER PUSCLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2010	.3790	.4990	.5760
PWT														
20.000	1.3170	.7038	.1963	.1682	.2446	.0000		-.1306	-.0252	-.0274	-.0432	-.0796	.0117	.1216
40.000			.8001	.1707	.2087	-.3411		-.3134	-.0027					
60.000			.4399	.2323	.1660	-.0813		-.3186	.0466	-.0407	-.1392	-.1401	-.0037	.1904
80.000			.5437	.3164	.2025	.0300		-.0985	.1108					
100.000			.3903	.3233	.1779	.0326		.0121	-.0176	-.0246	-.2172	-.2046	-.1690	
120.000		.7234	.5434	.3174	.1394	.1232		.0345	-.1349	-.3911	-.2644	-.2475	-.1304	
140.000			.5131	.2892	.1673	.2614		.2902	-.1444	-.4263	-.6067	-.3220	-.1874	
160.000								-.2284						
180.000			.4366	.3039	.2232	.3214			-.3034	-.7233	-.3336	-.2736	-.1067	
200.000								.4137						
220.000								.7210						
240.000									.4711					
260.000										-.3790	-.6224	-.3184	-.2273	-.0963
280.000														
300.000														
320.000										-.7237	-.7033	-.4440	-.2962	-.0601
340.000														
360.000														
380.000														
400.000														

ALPHAO (1) = 3.930 BETAO (3) = -2.000

SECTION (1) ORBITER PUSCLAGE DEPENDENT VARIABLE CP

W/LB	.6880	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0490
PWT										
40.000	.2049	.2304	.2932	.2688	-.2404	-.3236	-.2328			
60.000	.2339	.3269	.4323	.0402	-.3033	-.3177	-.2999			
80.000	-.0784	-.2940	-.2907	.1194	.0912	-.1417	-.1394			
100.000	-.0385	-.3077	-.0710	.0814	-.1480	-.1930	-.1364			
120.000			.0939	-.0469	-.1813	-.2285	-.2033			
140.000										
160.000			.1732	.1272	-.2465	-.1743	-.2303			
180.000			.3633	.2309	-.2424	-.0987	-.1971			
200.000			.1682		-.1132	-.1096	-.2011			
220.000			.0288	.3177	.0142	-.1111	-.2873			
240.000			.1790	.5740	.4184					



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TABULATED PRESSURE DATA - 1.114A - VOL. 3

(R21832)

ARC11-716 1A14 0A+712+S12M29+AT10 ORB. FUSELAGE

ALPHA(2) = -0.240 BETA(7) = 4.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8250	.8820	.9250	.9630	1.0020	1.0210	1.0480
PHI	1.2790	.6261	.2875	.3136	.4116	.0000				
120.000	.1936	.2490	.0869	-.1517	-.2636	-.1355	-.2139	-.2655		
135.000		.6364	.2687	-.3262	-.2930	-.2333				
150.000	.1361	.3223	.6034	.5924	-.1038	-.1710	-.3288			
165.000	.1315	.5444		.0136	-.1477	-.3283				
180.000	.1237	.3277	.5173	.6532						

ALPHA(2) = -6.220 BETA(8) = 6.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.5790
PHI	1.2790	.6261	.2875	.3136	.4116	.0000									
20.000		.2647	.2780	.3590	-.6294										
40.000		.3040	.2484	.2510	-.2732										
55.000		.3405	.2145	.1637	-.0463										
70.000		.3770	.2001	.1193	.0563										
90.000		.4487	.4035	.2161	.1065	.0611									
120.000		.4776	.3024	.2038	.2367										
140.000		.5713	.4956	.4102	.4226										
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
171.000															
180.000	1.2790	.8665	.6742	.3632	.5319	.5980									
X/LB	.6530	.7300	.7810	.8230	.8620	.9250	.9650	1.0020	1.0210	1.0480					
PHI	.0095	.0725	.1358	.1101	-.3549	-.3806	-.3722								
40.000	-.0005	.0455	.1209	-.3668	-.5398	-.4886	-.5675								
70.000	.1360	.1925	.1220	.2207	-.0943	.0511	-.0818								
90.000	.1149	.1698	.1333	.1406	-.1165	-.1137	-.1178								
105.000		.2050	.0798	-.1603	-.1518	-.1533									
110.000															
120.000	.1321	.2377	.0036	-.2502	-.3222	-.1647	-.2617	-.3007							
135.000			.5727	.1895	-.4245	-.4170	-.3227								
150.000	.0804	.2943	.5886	.6116	-.1427	-.2314	-.3863								
165.000	.0561		.5286		-.0210	-.1936	-.3427								
180.000	.0408	.2843	.4912	.6301											



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ARC11-716 1A14 OR-T12-SIEMENS-AT10 ORB. FUSELAGE (RB1032)

ALPHAX (6) = 3.940 BETA (6) = .040

SECTION 1: 1108BITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PWT	.0000	.0080	.0200	.0470	.0700	.1120	.1590	.1870	.1760	.2090	.2220	.3010	.3790	.4990	.5760
.000	1.3160	.7103	.2021	.1621	.2346	.0000										
20.000		.2436	.1982	.1997	.4461											
40.000		.3766	.1923	.1463	.1200											
60.000		.4925	.2478	.1406	.0227											
70.000		.4824	.2542	.1163	.0395											
80.000		.6208	.4920	.2453	.0766	.0749										
120.000		.4666	.2466	.1467	.2318											
140.000		.4202	.2940	.1956	.3053											
150.000																
160.000																
170.000																
180.000																
190.000	1.3160	.6201	.3646	.3008	.2376	.3378	.8643									
200.000	.6230	.7300	.7810	.8230	.8620	.9230	.9630	1.0210	1.0210	1.0480						

SECTION 1: 1108BITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PWT	.0000	.0080	.0200	.0470	.0700	.1120	.1590	.1870	.1760	.2090	.2220	.3010	.3790	.4990	.5760
.000	1.3160	.7103	.2021	.1621	.2346	.0000										
20.000		.2436	.1982	.1997	.4461											
40.000		.3766	.1923	.1463	.1200											
60.000		.4925	.2478	.1406	.0227											
70.000		.4824	.2542	.1163	.0395											
80.000		.6208	.4920	.2453	.0766	.0749										
120.000		.4666	.2466	.1467	.2318											
140.000		.4202	.2940	.1956	.3053											
150.000																
160.000																
170.000																
180.000																
190.000	1.3160	.6201	.3646	.3008	.2376	.3378	.8643									
200.000	.6230	.7300	.7810	.8230	.8620	.9230	.9630	1.0210	1.0210	1.0480						

ALPHAX (7) = 4.350 BETA (7) = 2.050

SECTION 1: 1108BITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PWT	.0000	.0080	.0200	.0470	.0700	.1120	.1590	.1870	.1760	.2090	.2220	.3010	.3790	.4990	.5760
.000	1.3160	.7103	.2021	.1621	.2346	.0000										
20.000		.2436	.1982	.1997	.4461											
40.000		.3766	.1923	.1463	.1200											
60.000		.4925	.2478	.1406	.0227											
70.000		.4824	.2542	.1163	.0395											
80.000		.6208	.4920	.2453	.0766	.0749										
120.000		.4666	.2466	.1467	.2318											
140.000		.4202	.2940	.1956	.3053											
150.000																
160.000																
170.000																
180.000																
190.000	1.3160	.6201	.3646	.3008	.2376	.3378	.8643									
200.000	.6230	.7300	.7810	.8230	.8620	.9230	.9630	1.0210	1.0210	1.0480						

(R1832)

ARC11-716 1A14 OX-TIEM-SIEM5-AT10 CRB. FUELSAGE

ALPHAO (8) = 4.000 BETAO (7) = 2.050

SECTION (1) CRIBITER FUELSAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0020	.0030	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2950	.3010	.3790	.4990	.5760
PHI															
120.000	.4084	.1090	.0996	.1689			.1612			-.3071	-.5748	-.6619	-.2947	-.0495	
140.000										-.4642					
150.000	.3965	.2769	.1703	.2722				.2996		-.6180	-.7440	-.5415	-.2767	-.0822	
151.000									.6169						
194.000									.3747						
162.000										-.5895	-.7130	-.4688	-.3038	-.0693	
165.000															
168.000									.7374						
174.000							.8682								
180.000	1.3140	.6270	.3801	.3021	.2302	.3233		.7279		-.7448	-.7008	-.4528	-.3038	-.0848	
180.000	.6830	.7900	.7810	.6230	.6620	.9230	.9430	1.0020	1.0210	1.0480					

ALPHAO (8) = 4.000 BETAO (8) = 4.070

SECTION (1) CRIBITER FUELSAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0020	.0030	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2950	.3010	.3790	.4990	.5760
PHI															
40.000	.1737	.1995	.2142	-.1361	-.3024	-.3248	-.3129			-.2829	-.2385				
70.000	-.0918	-.2305	-.1374	.0944	-.1299	-.1661	-.2060			-.2657	-.2465				
90.000	-.0897	-.1311	-.0807	.2257	-.1736	-.2278	-.2252								
105.000	.0756	-.0653	-.2045	-.2480	-.2631			-.2699							
110.000															
120.000	.0406	.0876	.0934	-.0005	-.2696	-.2296	-.2912	-.3132							
135.000															
150.000	.0720	.1667	.3748	.3719	-.1969	-.2362	-.3690								
165.000	.0812		.3354		-.0742	-.2426	-.3382								
180.000	.0884	.1728	.3128	.4005											

ALPHAO (8) = 4.000 BETAO (8) = 4.070

SECTION (1) CRIBITER FUELSAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0020	.0030	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2950	.3010	.3790	.4990	.5760
PHI															
20.000	1.8542	.6843	.1906	.1721	.2792	.0000		-.1930		-.0456	-.0435	-.0949	-.1196	-.0181	.0937
40.000								-.2147		-.0827					
60.000	.2801	.1488	.1181	-.2735				-.3063		-.0218	-.1208	-.1541	-.1374	.0149	.1055
80.000	.5140	.1312	.0490	-.1971				-.1637		-.0035					
100.000	.3385	.1230	.0123	-.0833				-.2218		-.2221	-.4661	-.3914	-.2918	-.0390	
120.000	.4099	.2332	.1174	-.0194	-.0022			-.1459		-.3143	-.4764	-.4020	-.2921	-.0261	
140.000								-.1099		-.3613	-.6244	-.6323	-.2490	-.0460	
160.000	.3522	.1806	.0820	.1489				-.3908		-.5908					
180.000	.3385	.2564	.1330	.2404				-.6419	-.7124	-.5198	-.2833	-.0715			
191.000															
198.000									.2978						
182.000															.3296



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ARC11-716 1A14 01-712-312M3-AT10 CRG. PUSBLAGE (R018382)

ALPHA(X) = 4.010 BETA(X) = 6.000

SECTION (1)	CRITER PUSBLAGE	DEPENDENT VARIABLE CP
X/LB	.6930 .7300 .7610 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480	
PHI		
.000	.1441 .1885 .2239 .1923 -.3163 -.3349 -.3236	-.2689 -.2329
40.000	.1315 .1702 .2021 -.2788 -.4778 -.4184 -.2992	-.2962 -.3099
70.000	-.0227 -.1644 -.0412 -.0572 -.1879 -.2005 -.2235	
90.000	-.0094 -.0967 .0197 .0274 .2119 -.2395 -.2489	
105.000	.0816 -.0306 -.2611 -.2932 -.2870	
110.000		-.2964
120.000	.0828 .0659 .1741 -.0910 -.3310 -.2907 -.3500	-.3117
135.000	.4803 .2477 -.3677 -.3911 -.3792	
150.000	.0841 .1488 .2948 .2063 -.2316 -.3560 -.4240	
165.000	.0831 .2787	
180.000	.0711 .1317 .2792 .3116	

ALPHA(X) = 4.060 BETA(X) = 6.110

SECTION (1)	CRITER PUSBLAGE	DEPENDENT VARIABLE CP
X/LB	.6000 .6080 .6230 .6470 .6700 .7120 .7590 .8030 .8510 .9010 .9590 .9790 .4990 .5780	
PHI		
.000	1.2020 .6989 .1274 .1025 .1665 .0000	-.3330
20.000	.0848 .0743 .1624 -.7447	-.2613
40.000	.0992 .0969 .1109 -.4987	-.2914
55.000	.1290 -.0084 -.0029 .2943	-.2245
70.000	.1678 -.0233 .0329 -.1703	-.3163
90.000	.1307 .1309 -.0080 .0303 -.1106	-.2432
120.000	.2244 .0405 -.0550 .0594	-.0371
140.000	.2470 .1714 .0653 .1617	
150.000		.0905
174.000		.4352
180.000		.2326
189.000		.6207
194.000		.7423
199.000		.6030
200.000	1.0020 .5048 .3810 .2326 .1643 .2296	
X/LB	.6930 .7300 .7610 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480	
PHI		
.000	.1103 .1960 .2056 .1785 -.2789 -.3396 -.3268	-.2977 -.2802
40.000	.1162 .1637 .2182 -.3375 -.4431 -.4306 -.3001	-.3169 .3302
70.000	-.0784 -.1832 -.0179 .0788 .2031 .2245 -.2359	
90.000	-.0236 -.0791 .0434 .0361 -.2275 -.2739 -.2747	
105.000	.1171 .0036 -.2963 -.3232 -.3180	
118.000		-.2409



ALPHAX (1) = 3.960 BETA0 (1) = -9.960

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PWT	.000	1.1700	.7496	.3013	.1600	.0936	.0000	-.5039	.0192	-.1040	.0029	-.0069	-.0632	.1941	
80.000				.4915	.2316	.2064	-.1176	-.5399	.0225						
40.000				.7335	.4131	.3105	.1066	-.2087	-.2339	-.0173	-.0570	-.0091	.1316	.3166	
95.000				.6463	.3933	.4274	.2182	.0955	.0907						
70.000				.6415	.3962	.4164	.2361	.1325	.1239	-.2066	.0309	-.0274	-.1208		
90.000		1.0230		.7701	.3969	.3649	.2922	.2172	.1012	-.2724	-.0343	-.1032	-.1579		
120.000				.6051	.3533	.2321	.2696	.4096	.0968	-.2023	-.4379	-.3011	-.5642		
140.000									.0314						
160.000				.3910	.2046	.1406	.2566		-.0730	-.7329	-.6494	-.3019	-.4496		
191.000								.6000	.5996						
156.000									.5429						
162.000									-.6396	-.6935	-.6720	-.4746	-.3149		
165.000								.7726							
169.000															
174.000		1.1700	.5923	.1895	.1252	.1005	.2195	.4774	-.7242	-.7329	-.6024	-.4749	-.1462		
160.000		.6030	.7900	.7610	.6230	.6620	.9230	1.0020	1.0210	1.0400					

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PWT	.000	3.4619	.4134	.4394	-.4770	-.3668	-.3276	-.3629	-.3140						
40.000				.3932	.3071	.6635	-.2370	-.2925	-.2703						
70.000				-.0099	-.3936	-.3807	.0079	-.0130	.0032	.0164					
90.000				-.0047	-.2908	-.3508	.0199	-.0524	-.0793	-.0364					
105.000				-.0340	-.0220	-.0823	-.1391	-.0204							
110.000								-.1676							
120.000		-.9260	-.3661	.0675	.2932	-.2216	-.1636	.0236	-.0491						
135.000				.1616	.0079	-.4063	.0316	-.0266							
150.000		-.0917	-.0470	.0194	.0097	.0940	-.1300								
165.000		-.0607		.1369	.1169	.1045	-.2175								
180.000		-.0367	.0036	.1443	.2407										

ALPHAX (1) = 3.960 BETA0 (2) = -7.960

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PWT	.000	1.1670	.7703	.3191	.1630	.0813	.0000	-.4916	-.0003	-.0875	-.1094	-.0492	-.0967	.1648	
80.000				.4473	.2636	.2949	-.2092	-.5630	.1566						
40.000				.6211	.3906	.3095	.0297	-.3028	-.2222	-.0263	-.0794	-.0760	.0641	.2628	
95.000				.7091	.3300	.3790	.1391	-.0006	.1087						
70.000				.7064	.3312	.3460	.1936	.0970	.1103	-.2091	-.0394	-.0392	-.1914		
90.000				.7121	.3063	.3063	.2339	.1622	.0960	-.3116	-.1079	-.1427	-.1720		

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DATE 08 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 04112-SIENS-AT10 CRG. PURCHASE (RB10321)

ALPHAOX 91 = 5.940 BETA0 (2) = -7.940

SECTION (1) CRITTER PURCHASE DEPENDENT VARIABLE CP

X/LB	.0000	.0020	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2920	.3010	.3790	.4990	.5790
PWT														
120.000		.5982	.3637	.2304	.2677		.3760		.0444	-.3042	-.4677	-.3015	-.4903	
140.000									-.0228					
150.000		.3615	.2541	.1501	.2611		.5091		-.1151	-.7427	-.6315	-.4222	-.3633	
170.000							.7634							
190.000														
162.000														
168.000							.7760		-.6331	-.7004	-.6393	-.4259	-.2232	
174.000														
180.000														
190.000														
X/LB	1.1970	.9629	.8470	.1601	.1376	.2393	.6197	.9454	-.7231	-.7074	-.7921	-.4376	-.1152	
	.6930	.7500	.7610	.6230	.6620	.9630	.9630	1.0020	1.0210	1.0480				

ALPHAOX 91 = 5.940 BETA0 (3) = -5.940

SECTION (1) CRITTER PURCHASE DEPENDENT VARIABLE CP

X/LB	.0000	.0040	.0220	.0470	.0700	.1120	.1580	.1670	.1700	.2050	.2920	.3010	.3790	.4990	.5790
PWT															
00.000															
20.000															
40.000															
60.000															
80.000															
90.000															
100.000															
120.000															
140.000															
160.000															
180.000															
190.000															
182.000															

DATE 08 DEC 74 TRANSLATED PRESSURE DATA - 1A14A - VOL. 3

(R6182E)

MFC11-716 1A14 CANTIER-212E2-AT10 CRG. FUELAGE

ALPHA (3) = 9.940 BETA (3) = -9.940

SECTION (1) COMBUSTER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2320	.3010	.3790	.4970	.5760
PHI															
165.000															
166.000															
167.000															
168.000															
169.000															
W/LB	.6870	.7500	.7910	.8230	.8450	.8620	.8830	1.0020	1.0210	1.0400					
PHI															
165.000															
166.000															
167.000															
168.000															
169.000															

ALPHA (3) = 9.940 BETA (3) = -9.940

SECTION (1) COMBUSTER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2320	.3010	.3790	.4970	.5760
PHI															
165.000															
166.000															
167.000															
168.000															
169.000															
W/LB	.6870	.7500	.7910	.8230	.8450	.8620	.8830	1.0020	1.0210	1.0400					
PHI															
165.000															
166.000															
167.000															
168.000															
169.000															

ALPHA (3) = 9.940 BETA (4) = -9.940

SECTION (1) COMBUSTER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2320	.3010	.3790	.4970	.5760
PHI															
165.000															
166.000															
167.000															
168.000															
169.000															
W/LB	.6870	.7500	.7910	.8230	.8450	.8620	.8830	1.0020	1.0210	1.0400					
PHI															
165.000															
166.000															
167.000															
168.000															
169.000															

ALPHA (3) = 9.940 BETA (4) = -9.940

SECTION (1) COMBUSTER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2320	.3010	.3790	.4970	.5760
PHI															
165.000															
166.000															
167.000															
168.000															
169.000															
W/LB	.6870	.7500	.7910	.8230	.8450	.8620	.8830	1.0020	1.0210	1.0400					
PHI															
165.000															
166.000															
167.000															
168.000															
169.000															



ARC11-716 1A14 01-712-31263-AT10 CRB. PUBLAGE (081832)

ALPHAO1 91 = 5.960 BETA0 (4) = -3.990

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.6200	.7200	.7810	.8220	.8620	.9020	.9420	1.0020	1.0210	1.0400
PWT										
.000	.2309	.2963	.3365	.3102	-.2133	-.3301	-.3024		-.2336	-.2091
40.000	.2500	.3042	.3400	.1400	-.3127	-.3304	-.3029		-.2718	-.2413
70.000	-.0767	-.3197	-.3101	.0307	-.1029	-.1303	-.1517			
90.000	-.0211	-.2411	-.1883	-.0322	-.1811	-.2222	-.1740			
105.000		.0701	-.0941	-.1891	-.2648	-.2190				
110.000										-.1082
120.000	-.1482	-.1601	.1922	.1928	-.3143	-.1945	-.2327		-.1048	
135.000			.3301	.1300	-.2789	-.0948	-.1638			
150.000	.0826	.1004	.2408	.2139	-.1265	-.0993	-.2537			
165.000	.0470	.2418		.0381	-.0826	-.3026				
180.000	.0894	.1897	.2772	.3841						

ALPHAO1 91 = 5.970 BETA0 (9) = -1.970

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.6200	.6900	.6920	.6470	.0700	.1120	.1500	.1670	.1760	.2020	.2300	.3010	.3700	.4900	.5700
PWT															
.000	1.2150	.6843	.1916	.1346	.2228	.0000		-.1301	-.0292	-.0133	-.0222	-.0404	.0333	.1310	
20.000		.2403	.1908	.1638	-.3310			-.3006	-.0028						
40.000		.4804	.2254	.1751	-.0899			-.3215	.0870	-.0547	-.1222	-.0970	.0336	.1901	
60.000		.4404	.2007	.1957	.0054			-.0830	.1284						
70.000		.9875	.3233	.1811	.0000			.0056	.0375	-.3944	-.2091	-.1816	-.1872		
90.000		.7173	.3014	.3133	.1135	.0903		.0542	-.1037	-.3828	-.2309	-.2385	-.1704		
120.000		.4015	.2315	.1472	.2142			.2808	-.1391	-.4089	-.6182	-.3790	-.2170		
140.000									-.2282						
150.000		.3878	.2506	.1570	.2702				-.5102	-.7511	-.5975	-.2708	-.0945		
160.000								.7135							
170.000									.4807						
180.000										-.6043	-.6734	-.3420	-.2711	-.0874	
190.000															
200.000	1.2150	.6100	.3379	.2310	.1777	.2807	.0401	.7082	-.7536	-.7507	-.4820	-.2910	-.0401		

ALPHAO1 91 = 5.970 BETA0 (9) = -1.970

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.6200	.7200	.7810	.8220	.8620	.9020	.9420	1.0020	1.0210	1.0400
PWT										
.000	.2309	.2963	.3365	.3102	-.2133	-.3301	-.3024		-.2336	-.2091
40.000	.2500	.3042	.3400	.1400	-.3127	-.3304	-.3029		-.2718	-.2413
70.000	-.0767	-.3197	-.3101	.0307	-.1029	-.1303	-.1517			
90.000	-.0211	-.2411	-.1883	-.0322	-.1811	-.2222	-.1740			
105.000		.0701	-.0941	-.1891	-.2648	-.2190				
110.000										-.1082
120.000	-.1482	-.1601	.1922	.1928	-.3143	-.1945	-.2327		-.1048	
135.000			.3301	.1300	-.2789	-.0948	-.1638			
150.000	.0826	.1004	.2408	.2139	-.1265	-.0993	-.2537			
165.000	.0470	.2418		.0381	-.0826	-.3026				
180.000	.0894	.1897	.2772	.3841						

080182E1

ARC11-716 1A14 OR 712-812828+AT10 ORG. PURCHASE

ALPHAO 91 = 5.970 BETAIO (91) = -1.970

SECTION (1) DEPENDENT VARIABLE CP

K/L/S	.0000	.7000	.7010	.9020	.9020	.9020	.9020	.9020	.9020	1.0000	1.0020	1.0210	1.0400
PWT													
100.000	-.0000	-.0000	.1229	.1313	-.3008	-.2005	-.2791	-.2220					
120.000			.2000	.2102	-.2000	-.1491	-.2220						
150.000			.0000	.1011	.2000	-.1490	-.1490	-.2700					
160.000			.0045	.2077		-.0117	-.1320	-.3001					
180.000			.0700	.1400	.2000	.4700							

ALPHAO 91 = 5.980 BETAIO (91) = .000

SECTION (1) DEPENDENT VARIABLE CP

K/L/S	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	
PWT																			
100.000																			
20.000			1.3600	.7100	.1700	.1500	.2113	.0000											
40.000					.2120	.1914	.1784	-.4417											
60.000					.3000	.1813	.1500	-.1273											
80.000					.4011	.2400	.1515	-.0201											
100.000					.4700	.2500	.1074	.0000											
120.000			.0000	.0000	.4500	.2500	.0500	.0000											
140.000					.4300	.2100	.1000	.1000											
160.000					.3700	.2300	.1370	.2300											
180.000																			
190.000							.0700												
190.000																			
190.000																			
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190.000																			
190.000																			
190.000																			
190.000																			

K/L/S	.0000	.7000	.7010	.9020	.9020	.9020	.9020	.9020	1.0000	1.0020	1.0210	1.0400
PWT												
100.000												
20.000												
40.000												
60.000												
80.000												
100.000												
120.000												
140.000												
160.000												
180.000												
190.000												
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ARC11-716 1A14 CH-T12-S12E3-AT10 CRD. PURLAGE (081832)

ALPHA(X) 91 = 5.978 BETA(O) 7 = 2.030

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1670	.1000	.2050	.2000	.3010	.3700	.4000	.5700
PWT															
.000	1.3000	1.4004	2.127	1.602	2.105	0.000		-1.197		-0.009	-0.0190	-0.0275	-0.0591	0.0296	0.1293
20.000			2.536	1.642	1.642	-2.537		-2.015		-0.0417					
40.000			3.709	1.771	1.956	-2.000		-3.123		0.000	-0.0900	-0.1103	-0.0941	0.0343	0.1455
60.000			3.900	1.902	0.000	1.212		-1.785		0.024					
80.000			4.024	1.805	0.923	-0.542		-1.607		0.108	-0.4413	-0.3035	-0.2965	-0.0973	
100.000			4.067	1.687	1.002	-0.179		-1.102		-0.1935	-0.4374	-0.3682	-0.3040	-0.0612	
120.000			3.829	1.608	0.679	1.179		1.629		-0.3001	-0.3228	-0.4636	-0.2705	-0.0619	
140.000			3.495	2.200	1.104	2.200				-0.4449					
160.000								2.935		-0.6245	-0.7070	-0.5397	-0.2682	-0.0612	
180.000								0.130							
190.000								3.676		-0.0100	-0.7302	-0.4615	-0.2908	-0.0723	
192.000															
194.000								7.291							
196.000							0.906								
198.000								7.146							
199.000															
199.000	1.3000	0.7700	3.400	2.303	1.731	2.741									
199.000	0.0000	0.7000	0.7010	0.0200	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000				

ALPHA(X) 91 = 5.960 BETA(O) 8 = 4.000

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1670	.1700	.2050	.2000	.3010	.3700	.4000	.5700
PWT															
.000	1.2000	0.7120	1.600	1.640	2.040	0.000		-1.190		-0.0177	-0.0321	-0.0406	-0.0646	-0.0612	0.1082
20.000			2.108	1.619	1.600	-0.908		-2.138		-0.0590					
40.000			2.704	1.541	1.004	-0.927		-3.054		-0.0241	-0.1100	-0.1890	-0.1149	0.0053	0.1243
60.000			3.027	1.800	0.416	1.029		-2.006		0.0084					
80.000			3.829	1.097	0.049	-0.117		-2.202		-0.0356	-0.4697	-0.3462	-0.2937	-0.0396	
100.000			3.707	2.747	0.962	-0.635	-0.1719			-0.2776	-0.4724	-0.4112	-0.3270	-0.0194	

ALPHA1 (1) = 5.928 BETA1 (1) = 4.000

ARC11-716 1A14 CRITICAL-RESISTANCE CRB. PURCHASE

081038Z

SECTION (1) INCREMENT PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1670	.1700	.2050	.2900	.3010	.3790	.4990	.5760
PWT															
120.000															
140.000															
150.000															
174.000															
182.000															
190.000															
194.000															
198.000															
200.000															
W/LB															
PWT															
100.000															
110.000															
120.000															
130.000															
140.000															
150.000															
160.000															
170.000															
180.000															
190.000															
200.000															

SECTION (1) INCREMENT PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1670	.1700	.2050	.2900	.3010	.3790	.4990	.5760
PWT															
120.000															
140.000															
150.000															
174.000															
182.000															
190.000															
194.000															
198.000															
200.000															
W/LB															
PWT															
100.000															
110.000															
120.000															
130.000															
140.000															
150.000															
160.000															
170.000															
180.000															
190.000															
200.000															



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ARC11-716 1A14 OR-TIME-SIZES-MATIO CRG. PURCHASE 08182821

ALPHAOX 9) = 5.048 BETMO (9) = 0.100

SECTION (1) CRIBITER PURCHASE DEFORMOR VARIABLE CP

W/L	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1670	.1700	.2000	.2320	.3010	.3700	.4000	.5700
PWT								.6436							
100.000															
150.000															
174.000								.7728							
190.000	1.2200	.4072	.3000	.2136	.1347	.2136									
W/L	.0000	.7000	.7010	.0000	.0000	.0000	.0000	1.0000	1.0010	1.0000					

PWT															
100.000	.1977	.1000	.0007	.1001	.0007	.0007	.0007								
150.000	.1446	.1703	.2127	.0006	-.4716	-.4193	-.2935								
170.000	-.0005	-.2102	-.0000	.0315	-.2079	-.2305	-.2402								
190.000	-.0074	-.1346	.0001	.0017	-.2375	-.2054	-.2734								
105.000			.0078	-.0210	-.2779	-.3134	-.3007								
110.000															
120.000	.0402	.0200	.1416	-.0772	-.3490	-.3014	-.3772								
130.000			.0077	.2000	-.4000	-.2341	-.3075								
150.000	.0717	.1000	.3000	.2000	-.2043	-.3703	-.4576								
160.000	.0004		.0000		-.1734	-.3777	-.3010								
160.000	.0002	.0015	.2000	.3301											

ALPHAOX 9) = 5.000 BETMO (10) = 0.130

SECTION (1) CRIBITER PURCHASE DEFORMOR VARIABLE CP

W/L	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1670	.1700	.2000	.2320	.3010	.3700	.4000	.5700
PWT															
20.000															
30.000															
40.000															
50.000															
70.000															
90.000															
100.000															
140.000															
150.000															
174.000															
190.000	1.1000	.4000	.5000	.1010	.1000	.1010									

PWT															
20.000															
30.000															
40.000															
50.000															
70.000															
90.000															
100.000															
140.000															
150.000															
174.000															
190.000															
W/L	.0000	.7000	.7010	.0000	.0000	.0000	.0000	1.0000	1.0010	1.0000					

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(R81832)

ARC11-716 IA14 OX-T12-S12E5-AT10 TRB. FUSELAGE

ALPHAO(9) = 5.920 BETAO(10) = 6.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6550	.7500	.7810	.8250	.8820	.9250	.9650	1.0020	1.0210	1.0480
PHI										
.000	.1331	.1672	.2060	.1741	-.3001	-.3404	-.3283		-.2974	-.2516
40.000	.1337	.1680	.2235	-.3356	-.4341	-.3063			-.3145	-.3232
70.000	-.0903	-.1493	-.0477	.0377	-.2231	-.2519	-.2494			
90.000	-.0413	-.1107	.0248	.0238	-.2617	-.3056	-.2866			
105.000		.0997	-.0341	-.3121	-.3444	-.3291				
110.000										-.2795
120.000	.0378	.0214	.2178	-.0935	-.3682	-.3496	-.4090			-.3065
135.000		.5269	.2316	-.4316	-.4147	-.4489				
150.000	.0217	.0453	.2533	.1866	-.2555	-.4027	-.4847			
165.000	.0256	.2068								
180.000	.0204	.0594	.1893	.2614						

ALPHAO(9) = 5.960 BETAO(11) = 10.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.1013	.7937	.0695	-.0147	.0664	.0000		-.3664		-.1435	-.1398	-.1213	-.1956	-.0968	.0009
20.000			-.0316	-.0037	.1136	-.6016		-.2946		-.2007					
40.000			-.0576	-.0232	.0641	-.5576		-.3124		-.2007	-.2279	-.2339	-.2008	-.0184	.0848
55.000			.0004	-.0645	-.0495	-.3625		-.2556		-.1623					
70.000			.0508	-.1062	-.1213	-.2378		-.3335		-.2903	-.5410	-.4465	-.3112	-.0186	
90.000			-.0953	.0436	-.1065	-.1631	-.1905	-.2983		-.4664	-.6994	-.4835	-.2468	.0067	
120.000			.1172	-.0531	-.1532	-.0376		-.1211		-.5302	-.7546	-.7706	-.2776	-.0268	
140.000										-.7202					
150.000			.0934	.0715	-.0329	.0406				-.7186	-.8195	-.5673	-.5300	-.1168	
151.000								.3747		-.0091					
156.000									.1822						
162.000										-.7726	-.6996	-.6030	-.4884	-.1064	
165.000								.5554							
169.000									.6441						
174.000															
180.000	1.1010	.3712	.2112	.1299	.0680	.1434		.4967		-.7455	-.7391	-.3913	-.4881	-.1420	

ALPHAO(9) = 5.920 BETAO(10) = 6.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6550	.7500	.7810	.8250	.8820	.9250	.9650	1.0020	1.0210	1.0480
PHI										
.000	.0899	.1355	.1741	.1506	-.2969	-.3413	-.3428		-.2968	-.2552
40.000	.1301	.1748	.2143	-.3277	-.5014	-.4301	-.5078		-.3281	-.3404
70.000	-.0623	-.1379	-.0406	.0362	-.2431	-.2634	-.2423			
90.000	-.0446	-.1105	.0182	.0288	-.2882	-.3333	-.3143			
105.000		.1089	-.0347	-.3509	-.3780	-.3697				
110.000										-.2817



(R51832)

ARC11-716 7A14 01-112-S12E5-AT10 CRB. FUSELAGE

ALPHA(9) = 9.960 BETA(11) = 10.190

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6950	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.0204	.0075	.2475	-.1074	-.3931	-.3744	-.4324	-.5030		
135.000			.7626	.2319	-.4504	-.4821	-.5003			
150.000	-.0626	-.0676	.1354	.0208	-.3175	-.4826	-.4487			
165.000	-.0624		.1396		-.2741	-.4650	-.2980			
180.000	-.0342	-.0095	.1341	.2543						

ALPHA(10) = 6.080 BETA(1) = -9.950

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1970	.7683	.3103	1.690	.2905	.0000		-.9015	.0118	-.1071	-.0173	-.0517	.0868	.2006	
20.000			.4719	.2327	.2549	-.1210		-.5352	-.0932						
40.000			.7644	.4371	.3171	.1038		-.2327	-.2435	-.0239	-.0531	-.0300	.1648	.3114	
55.000			.6699	.6163	.4339	.2071		.0600	.0852						
70.000			.8088	.6059	.4022	.2399		.1533	.1249	-.2858	.0296	-.0172	-.0670		
90.000	1.0190	.7705	.5499	.3417	.2993			.2245	.1412	-.2767	-.0316	-.0846	-.1111		
120.000		.9650	.3072	.1917	.2269			.3925	.0877	-.2746	-.4420	-.5512	-.6946		
140.000									.0224						
150.000		.2974	.1365	.0716	.1912				-.0964	-.7979	-.6895	-.5471	-.4533		
151.000								.7900	.5297						
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.1970	.5045	.1408	.0673	.0308	.1637				-.6660	-.7244	-.7026	-.5126	-.2020	
181.000						.8197									
186.000															
190.000	.6230	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

X/LB	.2907	.3335	.3967	.4284	-.4375	-.3767	-.3267								
PHI															
.000	.2907	.3335	.3967	.4284	-.4375	-.3767	-.3267								
40.000	.3705	.4688	.6229	.2810	-.3701	-.4609	-.3484								
70.000	-.1189	-.3963	-.4352	-.0887	-.0197	-.0177	-.0812								
90.000	-.1241	-.3499	-.4032	-.0244	-.0428	-.1083	-.0770								
105.000			-.1483	-.0396	-.0758	-.1484	-.3586								
110.000								-.1939							
120.000	-.4966	-.4313	.0254	.2425	-.2357	-.1791	-.0353	-.1132							
135.000			.0319	-.0443	-.4445	-.0160	-.0831								
150.000	-.1399	-.1091	.0646	.0673	-.0913	-.0132	-.1809								
165.000	-.1149		.0633		-.0036	.0358	-.2627								
180.000	-.0968	-.0867	.0693	.2798											

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(FB1832)

ARC11-716 IA14 C1+T12+S12E2-S+AT10 ORB. FUSELAGE

ALPHA(10) = 8.110 BETA(2) = -7.950

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.000	2.1910	.7956	.3220	.1751	.3128	.0000		-.4989		-.0042	-.0798	-.0487	-.0309	.0764	.1916
20.000			.4643	.2627	.2634	-.1979		-.5690		.1421					
40.000			.7210	.4106	.3115	.0322		-.2978		-.2352	-.0361	-.0657	-.0368	.1301	.2837
55.000				.6165	.5496	.3627	.1313	.0032		.1069					
70.000				.7935	.5313	.3407	.1679	.0927		.1162	-.2882	-.0288	-.0481	-.1232	
90.000		.9435		.7054	.4846	.2645	.1961	.1615		.1120	-.3084	-.0966	-.1250	-.1699	
120.000			.5300	.2879	.1711	.1969		.3534		.0472	-.3051	-.4889	-.5591	-.6283	
140.000										-.0252					
190.000			.3126	.1655	.0808	.1946			.9006	-.1334	-.7762	-.6866	-.4922	-.3168	
151.000								.7750							
156.000									.9090	-.6686	-.7247	-.6863	-.4794	-.1727	
162.000															
169.000								.7682							
169.000							.7934								
174.000								.3320		-.7954	-.7477	-.6260	-.4627	-.1032	
180.000	.6630	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.2634	.3207	.3773	.3921	-.3677	-.3670	-.3280								
40.000	.3493	.4502	.6069	.2319	-.3494	-.3966	-.3387								
70.000	-.1300	-.3526	-.3998	-.0512	-.0385	-.0493	-.0918								
90.000	-.1315	-.2826	-.3674	-.0089	-.0763	-.1178	-.0996								
105.000			-.0345	-.0362	-.1170	-.1776	-.0985								
110.000															
120.000	-.3230	-.3566	.0778	.2514	-.2903	-.1819	-.1083								
135.000			.1096	.0137	-.4020	-.0296	-.1037								
190.000	-.1088	-.0445	.1190	.1104	-.0913	-.0249	-.2136								
165.000	-.0909		.0990		.0130	.0219	-.2728								
180.000	-.0299	-.0141	.1394	.3316											

ALPHA(10) = 9.130 BETA(3) = -5.940

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.2540	.7760	.2751	.1633	.2624	.0000		-.4001		-.0285	-.0499	-.0036	-.0200	.0668	.1682
20.000			.4135	.2294	.2633	-.2314		-.5617		.1166					
40.000			.6437	.3560	.2791	-.0131		-.3294		-.0372	-.0315	-.0766	-.0399	.1022	.2569
55.000				.7284	.4710	.3282	.0769	-.0316		.1079					
70.000				.7060	.4623	.2635	.1186	.0428		.0725	-.3029	-.0776	-.0823	-.1704	
90.000		.8996	.6305	.4185	.2295	.1472		.1076		.0399	-.3100	-.1403	-.1490	-.2124	



(R61632)

ARC11-716 1A14 OR-716-SIZES+AT10 ORB. FUSELAGE

ALPHA(X10) = 7.50 BETA (4) = -3.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0080 .0230 .0470 .0700 .1120 .1990 .1670 .1780 .2090 .2950 .3010 .3790 .4990 .5760

PHI

169.000 .2996 .3046 .3422 .3127 .2250 .-3.402 .-3.073 .-3.061 .-2912 .-0243 .-0.7165 .-0.3710 .-0.3267 .-0.0926

169.000 .3106 .3086 .3402 .1478 .-3234 .-3.489 .-3.066 .-2.811 .-2.683 .7798

174.000 1.1220 .5878 .3741 .2479 .1850 .2236 .0442 .6008 .-7394 .-0.7013 .-0.3226 .-0.3065 .-0.0682

180.000 .6530 .7300 .7810 .8230 .8620 .9230 .9430 1.0020 1.0210 1.0480

PHI

.000 .2996 .3046 .3422 .3127 .2250 .-3.402 .-3.073 .-3.061 .-2912 .-0243 .-0.7165 .-0.3710 .-0.3267 .-0.0926

40.000 .3106 .3086 .3402 .1478 .-3234 .-3.489 .-3.066 .-2.811 .-2.683 .-3061 .-2912 .-2.811 .-2.683

70.000 .-0710 .-3280 .-3878 .-1040 .-1012 .-1427 .-1496 .-0932 .1178 .0212 .-0.462 .-0.0916 .-0.0377 .0325 .1927

90.000 .-0532 .-2378 .-2542 .-0453 .-1674 .-2072 .-1710 .-0012 .0975 .0270 .-3608 .-2562 .-2351 .-1973

109.000 .0268 .-0995 .-2227 .-2392 .-2160 .-1709 .0882 .-1174 .-3636 .-6133 .-4836 .-2492 .-2175

110.000 .-1796 .-2092 .1165 .1851 .3420 .-2139 .-2010 .-3016 .-3016 .-2920 .2920 .3010 .3790 .4990 .5760

120.000 .2795 .1269 .-3052 .-1540 .-1661 .-1131 .-2465 .-3167 .0212 .-0.462 .-0.0916 .-0.0377 .0325 .1927

135.000 .0016 .0467 .2453 .2190 .-1499 .-1247 .-2786 .-0932 .1178 .0975 .-3679 .-1962 .-1665 .-2174

150.000 .0310 .2293 .-0203 .-0365 .-3110 .0882 .0270 .-3608 .-2562 .-2351 .-1973 .-1174 .-3636 .-6133 .-4836 .-2492

169.000 .0019 .0775 .2886 .4886 .-0686 .-0686 .-0686 .-0686 .-0686 .-0686 .-0686 .-0686 .-0686 .-0686 .-0686 .-0686

ALPHA(X10) = 8.010 BETA (5) = -1.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0080 .0230 .0470 .0700 .1120 .1990 .1670 .1780 .2090 .2950 .3010 .3790 .4990 .5760

PHI

.000 1.3100 .6803 .1362 .1694 .2165 .0000 .-1206 .-0293 .-0.029 .0064 .-0.0114 .0312 .1415

20.000 .2235 .1725 .1687 .-3193 .-2465 .-3167 .0212 .-0.462 .-0.0916 .-0.0377 .0325 .1927

40.000 .4410 .2374 .1636 .-0783 .-3167 .0212 .-0.462 .-0.0916 .-0.0377 .0325 .1927

55.000 .9640 .3431 .2006 .-0139 .-0932 .1178 .0212 .-0.462 .-0.0916 .-0.0377 .0325 .1927

70.000 .5722 .3357 .1616 .0230 .-0012 .0975 .0270 .-3608 .-2562 .-2351 .-1973

90.000 .7116 .5308 .3145 .1197 .0347 .0882 .0270 .-3608 .-2562 .-2351 .-1973

109.000 .4543 .2229 .1100 .1564 .2829 .-2175 .-3016 .-3016 .-2920 .2920 .3010 .3790 .4990 .5760

140.000 .3542 .2167 .1116 .2139 .4061 .-3016 .-3016 .-2920 .2920 .3010 .3790 .4990 .5760

150.000 .7078 .4714 .-0125 .-0943 .-5660 .-2806 .-0763

174.000 .7715 .0957 .-7637 .-7353 .-4775 .-2948 .-1350

180.000 1.3100 .5770 .2596 .2147 .1327 .2290 .8411 .-7637 .-7353 .-4775 .-2948 .-1350

X/LB .6530 .7300 .7810 .8230 .8620 .9230 .9430 1.0020 1.0210 1.0480



DATE 09 DEC 77 TABULATED PRESSURE DATA - 1A14A - WS. 3

MRC11-716 1A14 01-712-312MS-AT10 CRG. PUSBLAGE

(RB1032)

ALPHAX(10) = 0.010 BETA(9) = -1.970

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.6930	.7300	.7610	.6230	.9230	.9630	1.0020	1.0210	1.0480
PWT									
.000	.2236	.2602	.2931	.2541	-.2634	-.3194	-.2993	-.2966	-.2623
40.000	.2545	.3403	.4630	.0727	-.3052	-.3230	-.2877	-.2638	-.2635
70.000	-.0822	-.3315	-.3907	-.1126	-.1223	-.1799	-.1954		
90.000	-.0717	-.2376	-.1730	-.0776	-.1949	-.2194	-.1755		
105.000			.0235	-.1121	-.2343	-.2699	-.2155		
110.000							-.2064		
125.000			-.1139	-.1220	.0827	.1401	-.3565	-.2209	-.2449
135.000			.2797	.1870	-.2600	-.1912	-.2413		
150.000		.0142	.2744	.2616	-.1660	-.1946	-.3266		
165.000		.0489	.2708		-.0388	-.1613	-.3182		
180.000		.0806	.0833	.2910	.9130				

ALPHAX(10) = 7.930 BETA(8) = .060

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0200	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PWT																
.000	1.3000	.7646	.1877	.1534	.2038	.0000			-.1283		-.0236	.0009	.0026	-.0064	.0674	.1543
20.000		.2215	.1406	.1764	.4367				-.1746		-.0303					
40.000		.3937	.1920	.1404	-.1339				-.2326		.0074	-.0753	-.0746	-.0478	.0307	.1683
55.000		.4536	.2308	.1441	-.0683				-.1231		.0644					
70.000		.4763	.2629	.1122	-.0236				-.0650		.0478	-.4165	-.2451	-.2091	-.1701	
90.000		.5838	.4546	.2537	.0374	-.0165			-.0164		-.0019	-.4177	-.3137	-.2713	-.1499	
120.000			.4100	.1986	.0775	.1341			.2300		-.1632	-.4358	-.6466	-.3638	-.1540	
140.000											-.2923					
150.000			.3429	.2182	.0997	.2100			.3575		-.5662	-.7567	-.5868	-.2613	-.0643	
171.000									.0643							
196.000										.4144						
185.000											-.6120	-.6768	-.4932	-.2870	-.0339	
189.000										.7344						
174.000							.6226									
190.000			.5637	.2969	.2185	.1360	.2325		.7166		-.7906	-.7393	-.4463	-.3027	-.0417	
W/LB	.6990	.7500	.7610	.6230	.9230	.9630	1.0020	1.0210	1.0480							

.3575

.0643

.7344

.7166

.6226

.7166

.7166

.6226

.7166

.7166

.6226

.7166

.7166

.6226

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.6930	.7300	.7610	.6230	.9230	.9630	1.0020	1.0210	1.0480
PWT									
.000	.2946	.2908	.2460	.1231	-.2819	-.3008	-.2943	-.2796	-.2986
40.000	.2172	.2482	.3046	-.0507	-.2562	-.3036	-.2661	-.2307	-.2404
70.000	-.1182	-.3639	-.3485	-.0203	-.1442	-.2097	-.2044		
90.000	-.0788	-.2443	-.1301	-.0963	-.2046	-.2360	-.2371		
105.000			.0297	-.1427	-.2366	-.2791	-.2661		
110.000							-.2706		

-.2706

-.2796

-.2307

-.2404

-.2371

-.2661

-.2661

-.2791

-.2661

-.2661

-.2661

-.2661

-.2661

(R81832)

MCC11-716 IA14 CALCIUM-SILICO-ALUMINATE ORS. FUSBLAGE

ALPHAX(10) = 7.930 BETA(0) = .060

SECTION (1) ORBITER FUSBLAGE DEPENDENT VARIABLE CP

X/LB	.6830	.7300	.7810	.8230	.8650	.9230	.9630	1.0060	1.0210	1.0460
PWT										
120.000	-.0550	-.0564	.0397	.1026	-.3737	-.2338	-.2394	-.3138		
135.000			.3006	.2369	-.2778	-.2443	-.2888			
150.000	.0391	.0637	.3226	.2907	-.2017	-.2323	-.3670			
165.000	.0294		.3113		-.0720	-.2386	-.3347			
180.000	.0667	.0903	.3106	.4649						

ALPHAX(10) = 7.970 BETA(7) = 2.030

SECTION (1) ORBITER FUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2380	.3010	.3790	.4900	.5760
PWT															
.000	1.2530	.7384	.2016	.1499	.1993	.0000		-.1803		-.0260	-.0006	-.0021	-.0242	.0431	.1393
20.000		.2190	.1917	.1628	-.3361			-.1967		-.0288					
40.000		.3109	.1671	.1263	-.2029			-.3000		.0165	-.0834	-.0776	-.0269	.0471	.1321
60.000		.3692	.1935	.0907	-.1336			-.1943		.0816					
70.000		.3931	.1879	.0337	-.0739			-.1824		.0467	-.4362	-.2918	-.2436	-.1074	
90.000		.4794	.3764	.1730	.0037	-.0699		-.1043		-.0401	-.4427	-.3532	-.3033	-.0916	
100.000		.3581	.1329	.0423	.0864			.1647		-.2763	-.4765	-.6671	-.2970	-.0796	
140.000		.3162	.1973	.0762	.1768					-.4179	-.7843	-.5514	-.2636	-.0509	
151.000								.6121		.2940					
156.000										.3626					
162.000		.5362	.3109	.2211	.1338	.2006		.8364		-.0239	-.7440	-.4632	-.2342	-.0332	
165.000								.7236							
169.000															
174.000															
180.000	1.2580	.7300	.7810	.8230	.8650	.9230	.9630	1.0060	1.0210	1.0460					

ALPHAX(10) = 7.970 BETA(7) = 2.030

SECTION (1) ORBITER FUSBLAGE DEPENDENT VARIABLE CP

X/LB	.6830	.7300	.7810	.8230	.8650	.9230	.9630	1.0060	1.0210	1.0460
PWT										
.000	.2239	.2473	.2407	.1094	-.2948	-.3229	-.2960		-.2912	-.2436
40.000	.2003	.2236	.2407	-.1316	-.3128	-.3301	-.3129		-.2353	-.2316
70.000	-.1264	-.2376	-.2326	.0300	-.1633	-.2315	-.2472			
90.000	-.0602	-.2073	-.0892	-.0886	-.2076	-.2720	-.2744			
105.000		.0373	-.1293	-.2379	-.2329	-.3140				
110.000										
120.000	-.0030	.0133	.0746	.0361	-.3306	-.2663	-.3324			
135.000		.4036	.2413	-.2993	-.2616	-.3291				
150.000	.0379	.0347	.3732	.3563	-.2228	-.3006	-.4024			
165.000	.0677		.3151		-.1057	-.2970	-.3368			
180.000	.0685	.6868	.2796	.2543						



ARC11-716 1A14 OR-T12-S12MS-AT10 CRG. PUGELAGE (0181932)

ALPHA=110) = 7.960 BETA= (2) = 6.110

SECTION (1) CRITTER PUGELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650	.0700	.0750	.0800	.0850	.0900	.0950	.1000
PW1																					
120.000		.2416	.0375	-.0096	-.0168	.0503															
140.000																					
160.000		.2352	.1253	.0223	.0764																
171.000						.1911															
194.000						.4632															
162.000																					
169.000																					
174.000																					
180.000	1.2340	.4424	.2699	.1763	.0874	.1422	.7695														
169.000	.9030	.7000	.7010	.6230	.6027	.9230	.9430	1.0210	1.0480												

PW1

W/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650	.0700	.0750	.0800	.0850	.0900	.0950	.1000
.000		.1645	.1967	.2291	.1647	-.3342	-.3316	-.3201													
40.000		.1609	.1967	.2321	.2643	-.4674	-.4122	-.2960													
90.000		-.1118	-.2445	-.0900	.0030	-.2231	-.2454	-.2300													
90.000		-.0396	-.1733	-.0039	.0224	-.2687	-.3039	-.2665													
105.000		.0532	-.0080	-.2934	-.3324	-.3247															
110.000																					
120.000	.0340	-.0082	.0994	-.0404	-.3266	-.3401	-.3960														
136.000		.0693	.2792	-.4001	-.3412	-.4137															
150.000	.0739	.0764	.3299	.3376	-.2622	-.3933	-.4623														
166.000	.0491		.2576	-.1606	-.3992	-.3136															
167.000	.0499	.0416	.1947	.3483																	

ALPHA=110) = 7.910 BETA= (10) = 6.160

SECTION (1) CRITTER PUGELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650	.0700	.0750	.0800	.0850	.0900	.0950	.1000
PW1																					
.000		1.1690	.6260	.0991	.0533	.0826	.0000														
20.000		.0416	.0337	.1013	-.7686																
40.000		.0571	.0143	.0421	-.4610																
55.000		.0933	-.0329	-.0349	-.3306																
70.000																					
90.000	.0468																				
120.000																					
140.000																					
150.000	.1600	.0993	-.0176	.0204																	
151.000																					
154.000																					
162.000																					



0

TRANSLATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 ORBITER SIZE/ATIO ORB. FUEL/LAKE

ALPHA(101) = 0.000 BETA(111) = 10.100

SECTION (1) ORBITER FUEL/LAKE DEPENDENT VARIABLE CP

W/LB	.0000	.7200	.7610	.0250	.0400	.0250	.9650	.9650	1.0000	1.0210	1.0400
PWT											
.000	.1182	.1375	.1761	.1214	-.3098	-.3457	-.3427			-.3017	-.2809
40.000	.1914	.1740	.2106	-.3177	-.4396	-.3149				-.3208	-.3370
70.000	-.0863	-.1361	-.0709	-.0107	-.2898	-.2840	-.2444				
90.000	-.0601	-.1022	-.0094	-.0169	-.3123	-.3403	-.3067				
105.000			.0854	-.0916	-.3681	-.3693	-.3646				
110.000											-.2894
120.000	.0171	-.0164	.2154	-.1337	-.4162	-.4073	-.4554				-.3043
135.000			.7033	.1933	-.4873	-.2813	-.2876				
150.000	-.0084	-.0957	.2246	.1118	-.2843	-.4554	-.3883				
165.000	-.1482		.0714		-.2365	-.4582	-.3120				
180.000	-.1029	-.1024	.0321	.2545							

ALPHA(111) = 10.040 BETA(11) = -9.930

SECTION (1) ORBITER FUEL/LAKE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0100	.1120	.1960	.1670	.1760	.2050	.2320	.3010	.3700	.4990	.5760
PWT															
.000	1.1410	.7605	.3091	.1095	.2678	.0000		-.2063		.0109	-.0587	-.0411	-.0127	.0904	.1641
20.000			.4603	.2270	.2191	-.1469		-.2310		-.0785					
40.000			.0239	.4398	.2883	.0870		-.2391		-.2021	-.0243	-.0010	.0291	.1638	.2691
55.000			.0900	.6238	.4293	.1751		.0509		.1109					
70.000			.0406	.6008	.3871	.2020		.1440		.1364	-.2596	.0910	.0033	-.0483	
90.000		.6873	.7496	.2898	.3196	.2131		.2179		.1609	-.2698	-.0043	-.0770	-.1027	
110.000			.9222	.2382	.1382	.1319		.3391		.0296	-.2733	-.4414	-.6129	-.7684	
140.000										.0233					
150.000			.2437	.0794	.0233	.0919				-.1108	-.8145	-.7363	-.5839	-.3109	
171.000								.7738							
191.000										.9112					
202.000											-.6708	-.7403	-.7293	-.5651	-.2160
209.000								.7437							
174.700			.4977	.0099	.0228	-.0186	.0727								
160.000	1.1410	.4977	.0099	.0228	-.0186	.0727		.4239							

ALPHA(111) = 10.040 BETA(11) = -9.930

SECTION (1) ORBITER FUEL/LAKE DEPENDENT VARIABLE CP

W/LB	.0000	.7200	.7610	.0250	.0400	.0250	.9650	.9650	1.0000	1.0210	1.0400
PWT											
.000	.2682	.3084	.3838	.4136	-.4201	-.3778	-.3239			-.3335	-.3087
40.000	.3820	.4470	.5937	.2923	-.3427	-.3993	-.3377			-.2903	-.2886
70.000	-.1800	-.4070	-.4387	-.1619	-.0768	-.1483	-.1882				
90.000	-.1239	-.3833	-.4198	-.0432	-.0489	-.1422	-.2210				
105.000			-.2291	-.0489	-.0791	-.2094	-.2344				
110.000											-.2802



(061932)

ARC11-716 1A14 01-712-212M3-4710 CRG. PUSBLAGE

ALPHAO(11) = 10.040 BETAO (1) = -2.930

SECTION (1) XCRITER PUSBLAGE DEPENDENT VARIABLE CP

X/L	.0000	.7500	.7010	.0230	.0620	.9620	.9620	.9620	1.0000	1.0210	1.0400
PHI											
120.000	-.3400	-.2816	-.0207	.2271	-.2703	.2291	-.1844	-.1332			
130.000		-.0303	-.0804	-.4244	-.0991	-.1636					
140.000	-.2047	-.2001	-.0200	.0163	-.1883	-.1391	-.2006				
150.000	-.2070	-.0894	-.0894	-.0776	-.0482	-.2754					
160.000	-.1917	-.1708	.0140	.3229							

ALPHAO(11) = 9.980 BETAO (2) = -7.950

SECTION (1) XCRITER PUSBLAGE DEPENDENT VARIABLE CP

X/L	.0000	.0000	.0230	.0410	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	1.1000	.7006	.3135	.1371	.2777	.0000	-.4953	-.0078	-.0491	-.0220	-.0004	.0993	.0993	.1993	.1993
30.000		.4000	.2302	.2500	-.2123		-.3619	.1391	-.1908	-.0340	-.0217	.0265	.1396	.2015	
40.000		.7752	.4001	.2926	.0117	-.0049	-.2949	-.1092							
50.000		.6027	.5493	.3704	.1065	-.0049	-.0949	.1239	-.2754	-.0084	-.0249	-.1053			
60.000		.7874	.5275	.3232	1.429		.0949	.1227	-.2977	-.0675	-.1015	-.1973			
70.000		.6514	.6830	.4883	.2390	.1373	.1687	.0543	-.3082	-.4613	-.6163	-.7732			
80.000		.4955	.3424	.1214	.1134		.3471	-.0211							
90.000		.3604	.1041	.0399	.0995			-.1416	-.6126	-.7150	-.9004	-.2376			
100.000							.7022								
110.000															
120.000															
130.000															
140.000															
150.000															
160.000															

X/L	.0000	.7500	.7010	.0230	.0620	.9620	.9620	.9620	1.0000	1.0210	1.0400
PHI											
40.000	.2702	.2020	.3003	.3773	-.3733	-.2644	-.2006				
50.000	.3498	.4436	.5021	.5014	-.3022	-.3061	-.3247				
60.000	-.1410	-.3710	-.4309	-.1037	-.0340	-.1308	-.1942				
70.000	-.1496	-.3001	-.3023	-.0130	-.0096	-.1715	-.2390				
80.000		-.1282	-.0118	-.1081	-.3273	-.2307					
90.000	-.3217	-.3408	.0161	.2302	-.2848	-.2176	-.1700	-.1330			
100.000		.0982	-.0804	-.3646	-.0667	-.1982					
110.000	-.1108	-.1706	.0073	-.1306	-.1129	-.2021					
120.000	-.0038	.0000	-.0161	-.0037	-.2733						
130.000	-.0091	-.0097	.1108	.3734							

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DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14 - VOL. 3

ARC11-716 1A14 01-12-612ES-AT10 CRG. FUELSLAE (M1832)

ALPHACO(111) = 9.968 BETAO (3) = -3.980

SECTION (11-ORBITER FUELSLAE) DEPENDOR VARIABLE CP

W/LB	0.000	0.000	0.020	0.040	0.070	0.110	0.150	0.170	0.180	0.200	0.220	0.3010	0.3790	0.4990	0.5700
PHI															
80.000	1.2418	.7095	.8246	.1282	.2474	.0000		-3.966		-.0274	-.0304	.0081	-.0109	.0763	.1009
80.000			.4216	.2126	.2254	-.2339		-.5253		.1035					
80.000			.7099	.3548	.2643	-.0259		-.3279		.0837	-.0163	-.0300	-.0039	.1102	.2006
90.000			.7982	.4784	.3143	.0823		-.0399		.1300					
90.000			.7034	.4308	.2899	.0835		.1118		-.2991	-.0378	-.0894	-.0894	-.1643	
90.000		.8448	.8139	.3937	.2043	.1127		.0375		.0945	-.3033	-.1226	-.1421	-.2093	
100.000			.4915	.2037	.1009	.0917		.3142		-.0079	-.3369	-.2299	-.0067	-.7391	
140.000			.2702	.1273	.0423	.0911				-.0599					
150.000								.4920		-.1947	-.7990	-.7013	-.4693	-.2006	
190.000								.7884							
190.000								.4782							
190.000										-.0984	-.7459	-.6390	-.3943	-.1277	
190.000															
190.000										-.7997	-.7150	-.7090	-.3299	-.0980	
190.000															
W/LB															
80.000	1.2418	.4848	.1287	.1094	.0489	.0997		.7889							
80.000															
90.000															
90.000		.7000	.7010	.6220	.6460	.6220	.9400	1.0000	1.0210	1.0400					

ALPHACO(111) = 9.968 BETAO (4) = -3.970

SECTION (11-ORBITER FUELSLAE) DEPENDOR VARIABLE CP

W/LB	0.000	0.000	0.020	0.040	0.070	0.110	0.150	0.170	0.180	0.200	0.220	0.3010	0.3790	0.4990	0.5700
PHI															
80.000	1.2798	.6196	.1543	.1303	.1942	.0000		-.1767		-.0499	-.0231	.0110	-.0096	.0927	.1009
80.000			.2704	.1882	.1893	-.2473		-.4723		.0240					
80.000			.8201	.5213	.2823	-.0449		-.3414		.1299	-.0163	-.0339	-.0216	.0933	.2202
90.000			.8910	.6144	.2590	.0225		-.0990		.1764					
90.000			.8889	.3922	.2090	.0728		-.0003		.1267	-.3393	-.1270	-.1103	-.1993	
90.000		.8139	.3926	.3726	.1265	.0728		.0763		-.0763	-.3333	-.1901	-.1844	-.2431	





DATE 08 DEC 74 TABULATED RESOURCE DATA - IAI4A - VOL. 3

ARC11-716 IAI4 06-112-5125-4110 CRB. PURCHASE

0618321

ALPHA(11) = 9.928 BETA(4) = -3.970

SECTION (1) CRITTER PURCHASE DEFODOR VARIABLE CP

W/L	0000	0000	0020	0470	0700	1120	1900	1670	1790	2030	2920	3010	3790	4090	3700
PHI															
120.000			.4570	.1715	.0900	.0730		.3004		-.0544	-.3024	-.3003	.3002	-.4473	
140.000										-.1633					
150.000			.3040	.1601	.0402	.0854		.4370		-.3534	-.7761	-.0906	-.3713	-.1447	
174.000								.7822							
194.000								.4711		-.6479	-.7548	-.0419	-.3200	-.0030	
168.000								.7704							
169.000															
174.070						.7977		.6404		-.7371	-.7140	-.3317	-.2091	-.0600	
190.000	1.2700	.0000	.7010	.0230	.0000	.0230	.0000	1.0000	1.0010	1.0400					

ALPHA(11) = 9.928 BETA(9) = -1.970

SECTION (1) CRITTER PURCHASE DEFODOR VARIABLE CP

W/L	0000	0000	0020	0470	0700	1120	1900	1670	1790	2030	2920	3010	3790	4090	3700
PHI															
80.000			.3000	.1076	.0000	.0000		-.1203		-.0334	-.0015	.0273	.0170	.0670	.1364
40.000			.2119	.1904	.1994	-.2040		-.2303		-.0009					
40.000			.4008	.2406	.1716	-.0799		-.2937		.0907	-.0402	-.0440	-.0175	.0730	.1000
51.000			.3700	.3710	.2207	-.0106		-.1106		1.483					
70.000			.9009	.3919	.1715	.0134		-.0200		.0071	-.3070	-.1073	-.1400	-.2339	
90.000		.7140	.3044	.3002	.1109	.0200		.0347		.0002	-.3000	-.2437	-.2006	-.2304	
120.000			.4307	.2022	.0023	.0091		-.2013		-.1114	-.4032	-.0133	-.3705	-.2770	
140.000			.3004	.1933	.0003	.1310		.6047		-.2132	-.7700	-.0300	-.2093	-.0000	
150.000								.7023							
174.000								.4443							

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ARC11-716 1A14 ORBITER PUSBLAGE (R61632)

ALPHAO(11) = 9.930 BETA0 (5) = -1.970

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB .0000 .0000 .0250 .0470 .0700 .1120 .1990 .1760 .2050 .2920 .3010 .3790 .4990 .5760

PHI

165.000 .7641
166.000
.74.000 .6139
160.000 1.3060 .9960 .2667 .1647 .1017 .1942

X/LB .6930 .7500 .7610 .6250 .6620 .9250 .9650 1.0020 1.0210 1.0480

PHI

.000 .2129 .2449 .2765 .2906 -.2790 -.3242 -.2975
40.000 .2376 .3035 .3664 .0000 -.3095 -.3224 -.2696
70.000 -.1027 -.3474 -.4105 -.1671 -.1075 -.1649 -.1971
90.000 -.0746 -.2715 -.2166 -.1153 -.1917 -.2105 -.2025
105.000 .105.000 .6456 -.1567 -.2924 -.2315 -.2599
110.000
120.000 -.142 -.1362 .0405 .1469 .3665 .1662 -.2434
135.000 .2744 .1667 .2633 .2147 .2442
150.000 -.0197 -.0160 .2554 .2132 .2561 .2565 .3907
165.000 .0426 .2594
180.000 .0425 .0566 .2939 .5567

ALPHAO(11) = 9.930 BETA0 (6) = .030

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB .0000 .0000 .0250 .0470 .0700 .1120 .1990 .1670 .1760 .2050 .2920 .3010 .3790 .4990 .5760

PHI

.000 1.3050 .7050 .1906 .1791 .2045 .0000
20.000 .2165 .1799 .1644 .4272
40.000 .3603 .2144 .1531 .1257
55.000 .4046 .2920 .1661 .0625
70.000 .4903 .2619 .1293 .0249
90.000 .4545 .2615 .0751 .0194
120.000 .3695 .1796 .0729 .0470
140.000
150.000 .3112 .1664 .0776 .1203
171.000
190.000
195.000
198.000
199.000

.3951

.6286

.4060

.7462

160.000 1.3056 .9267 .2602 .1656 .1046 .1633
174.000
190.000 .6586 .7566 .7616 .6250 .6620 .9250 .9650 1.0020 1.0210 1.0480

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 1A14 01-712-51262-AT10 CR8. FUSELAGE (RB1832)

ALPHAX(11) = 9.950 BETA(6) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6930	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.2110	.2307	.2339	.1319	-.2900	-.3099	-.3015		-.2814	-.2629
40.000	.2075	.2402	.2657	-.0900	-.2910	-.3026	-.2637		-.2624	-.2491
70.000	-.1310	-.3396	-.3796	-.0990	-.1480	-.1665	-.2035			
90.000	-.0901	-.2396	-.1914	-.1214	-.2204	-.2392	-.2241			
105.000		.0219	-.1614	-.2383	-.2684	-.2641				
110.000										-.2542
120.000	-.0687	-.0704	.0219	.0219	-.3796	-.2325	-.2794			-.2967
135.000			.3566	.2095	-.2763	-.2653	-.2965			
150.000	.0304	.0395	-.3200	.2797	-.2405	-.2832	-.3674			
165.000	.0607		.3761							
180.000	.0721	.0816	.3084	.3723						

ALPHAX(11) = 9.950 BETA(7) = 2.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0710	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5780
PHI															
.000	1.2640	.7291	.1731	.1497	.1636	.0000				-.0400	.0030	.0261	.0133	.0967	.1342
20.000		.1927	.1960	.1700	-.3272					-.0454					
40.000		.2932	.1705	.1266	-.1916					.0175	-.0739	-.0384	-.0299	.0690	.1942
55.000		.3657	.2046	.1060	-.1255					.0934					
70.000		.3614	.1929	.0669	-.0616					.0212	-.4060	-.2626	-.2226	-.1399	
90.000		.4596	.3662	.1611	.0069	-.0753				-.1536	-.4290	-.3303	-.2679	-.1143	
120.000		.3386	.1360	.0271	.0016					-.2473	-.5262	-.6586	-.3417	-.0796	
140.000										-.3636					
150.000		.2651	.1637	.0330	.0429					-.6307	-.7969	-.5884	-.2434	-.0356	
171.000									.2972						
174.000															
180.000	1.2960	.4933	.2715	.1048	.1029	.0939									
PHI															
.000	.2123	.2316	.2166	.0921	-.2692	-.3115	-.2965								
40.000	.1973	.2306	.2401	-.1309	-.3063	-.3240	-.3094								
70.000	-.1474	-.3077	-.2935	-.0021	-.1911	-.2374	-.2399								
90.000	-.0974	-.2187	-.1163	-.0617	-.2333	-.2815	-.2662								
105.000		.0205	-.1342	-.2641	-.3102	-.3153									
110.000															

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ARC11-716 1A14 04+112+S12E5+AT10 CRB. FUSELAGE (R81032)

ALPHAO(11) = 9.900 BETA0 (7) = 2.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6550	.7500	.7610	.6250	.6620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0156	-.0241	.0675	.0133	-.3681	-.2670	-.3442	-.3303		
135.000			.4476	-.2066	-.3090	-.2965	-.3597			
150.000	.0568	.0532	.3616	.3529	-.2417	-.3130	-.4179			
165.000	.0794	.3239			-.1210	-.3169	-.3524			
180.000	.0719	.0554	.2635	.5376						

ALPHAO(11) = 9.900 BETA0 (8) = 4.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2920	.3010	.3790	.4990	.5760
PHI															
.000	1.2600	.7074	1.484	1.401	1.711	.0000		-.1792	-.0997	-.0125	.0098	-.0192	.0402	.1165	
20.000			1.732	1.900	1.962	-.5854		-.2159	-.0906						
40.000			2.409	1.433	1.044	-.2613		-.3267	-.0025	-.0555	-.0606	-.0495	.0375	.1476	
55.000			.2874	1.344	.0491	-.1916		-.2695	.0875						
70.000			.3050	1.175	.0089	-.1357		-.2321	.0103	-.4122	-.2972	-.2622	.0484		
90.000		.3397	.2691	1.005	-.0449	-.1247		-.1993	-.2009	-.4388	-.3634	-.3245	-.0195		
120.000			.2633	.0619	-.0099	-.0473		1.1180	-.3437	-.6046	-.6796	-.2641	-.0157		
140.000									-.3279						
150.000			.2320	1.458	.0216	.0011			-.6710	-.6115	-.5991	-.2397	-.0190		
171.000								.2299							
196.000								.5400							
162.000									.2976						
169.000										-.6537	-.7972	-.5263	-.2586	-.0421	
174.000															
180.000	1.2600	.4960	.2545	1.666	.0942	.0606	.7971	.6360		-.7630	-.6965	-.5436	-.2685	-.0695	

X/LB .6550 .7500 .7610 .6250 .6620 .9230 .9630 1.0020 1.0210 1.0480

ALPHAO(11) = 9.900 BETA0 (9) = 6.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2920	.3010	.3790	.4990	.5760
PHI															
.000	.2083	.2236	.2191	1.224	-.3300	-.3240	-.3167								
40.000	.1692	.2096	.2186	-.2065	-.4991	-.3643	-.2902								
70.000	-.1242	-.2805	-.2285	-.0037	-.2263	-.2650	-.2766								
90.000	-.0711	-.1990	-.0956	-.0430	-.2553	-.3140	-.3054								
105.000		.0094	-.1149	-.2685	-.3376	-.3514									
110.000															
120.000	.0306	-.0156	.0606	-.0621	-.3368	-.3307	-.3676	-.3328							
135.000			.2255	.1842	-.3632	-.3236	-.3659	-.3614							
150.000	.0641	.0666	.4071	.3909	-.2663	-.3654	-.4641								
165.000	.0664	.3235													
180.000	.0646	.0423	.2541	.5372	-.1961	-.3612	-.3466								



ARC11-716 1A14 05+112+S12M23+AT10 CRB. FUSELAGE

(R81832)

ALPHAO(11) = 10.040 BETA0 (9) = 6.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PHI	.000	1.2170	.6202	.1081	.1060	.1310	.0000	-.2361	-.0667	-.0520	-.0266	-.0637	.0129	.0948	
20.000				.1176	.1032	.1439	-.6662	-.2067	-.0731						
40.000				.1686	.0911	.0790	-.3457	-.2514	-.0674	-.0622	-.0927	-.0861	.0342	.1314	
55.000				.1967	.0509	.0019	-.2601	-.3269	.0394						
70.000				.2143	.0269	-.0446	-.1904	-.2642	-.0051	-.4323	-.3342	-.2985	-.0432		
90.000				.1829	.172	.0166	-.1791	-.2182	-.2887	-.4686	-.3978	-.3481	-.0096		
120.000				.2171	.0295	-.0497	-.0904	.0477	-.4119	-.7061	-.6949	-.2667	.0234		
140.000									-.6188						
190.000				.1962	.0855	-.0109	-.0098		-.6996	-.8004	-.9695	-.2506	.0005		
151.000								.1410							
196.000								.4731							
162.000									-.6606	-.8052	-.5627	-.2941	-.0617		
165.000															
169.000								.6251							
174.000							.7457	.6062	-.7716	-.7066	-.6193	-.3437	-.0842		
160.000				1.2170	.3973	.2196	.1325	.0546							
X/LB	.6930	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.1766	.2069	.2275	.1696	-.3357	-.3396	-.3293								
40.000	-.1731	.2021	.2199	-.2577	-.4657	-.4150	-.2969	-.2668	-.2909						
70.000	-.1267	-.2452	-.1266	-.0264	-.2460	-.2619	-.2731	-.2932	-.2997						
90.000	-.0768	-.1773	-.0337	-.0222	-.2796	-.3192	-.3043								
105.000			.0400	-.0690	-.3090	-.3485	-.3403	-.3323							
110.000								-.3707							
120.000	.0232	-.0260	.0679	-.0936	-.3708	-.3553	-.4139								
135.000			.5346	.2212	-.3939	-.3633	-.4280								
130.000	.0767	.0496	.5944	.3625	-.2742	-.4044	-.5067								
165.000	.0461	.2744			-.1636	-.4199	-.3379								
160.000	.0305	.0041	.2000	.4476											

ALPHAO(11) = 10.030 BETA0 (10) = 9.160

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PHI	.000	1.1460	.5964	.0996	.0323	.0905	.0000	-.3030	-.1151	-.0692	-.0669	-.0943	-.0046	.0650	
20.000				.0242	.0262	.0610	-.7551	-.2046	-.1091						
40.000				.0990	.0214	.0561	-.4518	-.2759	-.1261	-.1227	-.1412	-.1347	.0296	.1199	
55.000				.0956	-.0294	-.0371	-.3326	-.3356	-.0316						
70.000				.1295	-.0960	-.0697	-.2316	-.2974	-.0622	-.4407	-.3630	-.3294	-.0254		
90.000				.0172	.0903	-.0611	-.1335	-.2097	-.3310	-.5056	-.4139	-.3307	.7065		

ARC11-716 1A14 ON-T12-SIZES+AT10 CRB. FUSELAGE (RB1832)

ALPHAO(11) = 10.030 BETAO (10) = 9.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
120.000		.1545	-.0282	-.1096	-.1292			-.0375		-.4731	-.7596	-.6756	-.2867	.0506	
140.000										-.6811					
150.000		.1366	.0596	-.0391	-.0477					-.7201	-.6167	-.3960	-.2669	.0007	
151.000								.3995	.0467						
156.000									.1871						
162.000										-.7242	-.7966	-.6036	-.3601	-.1019	
165.000															
169.000								.3719							
174.000							.6808								
180.000	1.1480	.3329	.1769	.0942	.0239	.0144		.5346		-.7863	-.7571	-.6377	-.4729	-.1059	

X/LB .6530 .7500 .7810 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI

.000	.1461	.1746	.2079	.1955	-.3259	-.3428	-.3344								
40.000	.1707	.1966	.2270	-.3082	-.4756	-.4349	-.3112			-.3008	-.2541				
70.000	-.1196	-.1812	-.0502	-.0321	-.2530	-.2524	-.2459			-.3156	-.3156				
90.000	-.0796	-.1498	-.0230	-.0318	-.2882	-.3124	-.2895								
105.000		.0637	-.0691	-.3290	-.3476	-.3256									
110.000															
120.000	.0196	-.0362	.1431	-.0691	-.3918	-.3754	-.4247								
135.000			.4689	.2137	-.4278	-.4190	-.4704								
150.000	.0262	.0096	.3514	.3626	-.2307	-.4239	-.5901								
165.000	-.0258		.1943		-.1777	-.4244	-.3370								
180.000	-.0433	-.0435	.0596	.3296											

ALPHAO(11) = 10.070 BETAO (11) = 10.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.0360	.2902	.0273	-.1563	-.0249	.0000				-.1626	-.1031	-.1483	-.1266	-.0403	.0192
20.000										-.1306					
40.000		-.0931	-.7878	.0698	-.7823					-.1786	-.1783	-.1927	-.1321	.0013	.0955
55.000										-.1124					
70.000		-.0850	-.0663	-.0769	-.3614					-.1574	-.4519	-.3933	-.3175	-.0358	
90.000		-.0432	-.1099	-.1432	-.2731					-.3627	-.5376	-.4296	-.2801	-.0148	
120.000		-.1266	.0199	-.1109	-.2036	-.2341				-.5159	-.7724	-.6930	-.2758	.0063	
140.000			.0792	-.0790	-.1792	-.1547				-.7223					
160.000										-.7343	-.6472	-.6104	-.2930	-.0934	
151.000															
156.000															
162.000															

.3963

.1917

ORIGINAL PAGE IS OF POOR QUALITY



MC11-716 1A14 CR+T12+312E2+AT10 CRG. FUELSLAGE (R81032)

ALPHA(111) = 10.070 BETA(111) = 10.230

SECTION (1) ORBITER FUELSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI														
165.000							.5305							
169.000														
174.000						.6127								
180.000	1.0360	2.2912	.0930	.0467	-.0196	-.0501								
W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9430	1.0020	1.0210	1.0480				
PHI														
.000	.1059	.1319	.1708	.1369	-.2978	-.3377	-.3393							
40.000	-.1473	.1769	.2096	-.3261	-.4696	-.4297	-.3192							
70.000	-.1114	-.1457	-.2090	-.0370	-.2712	-.2541	-.2299							
90.000	-.0720	-.1120	-.0314	-.0476	-.3096	-.3192	-.2725							
105.000		.0576	-.1161	-.3643	-.3713	-.3235								
110.000														
120.000	.0134	-.0062	.1915	-.1161	-.4176	-.4036	-.4417							
135.000			.6966	.1536	-.4726	-.4913	-.3216							
150.000	.0463	-.0213	.3693	.2968	-.2221	-.4299	-.3628							
165.000	-.1667	.0666			-.1468	-.4000	-.3402							
180.000	-.1828	-.1840	-.0472	.2462										

ORIGINAL PAGE IS OF POOR QUALITY

TABULATED PRESSURE DATA - IA14A - VOL. 3
ARC11-716 IA14 04-T12-SIZES+AT10 CR8. FUSELAGE

REFERENCE DATA

SRCP = 2.4210 SQ.FT. WRP = 29.2600 INCHES
LWRP = 38.7090 INCHES YWRP = .0000 INCHES
SRCP = 38.7090 INCHES ZWRP = .0000 INCHES
SCALE = .0000 SCALE

M.FIX(1) = -10.340 DETMO (1) = -9.910

PARAMETRIC DATA

MACH = 1.250 DLOCN = .000
RUDDER = .000 SPODRK = .000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.3070	.7146	.3865	.3771	.5393	.0000	-.1777	.0791	-.0794	-.1788	-.1029	-.0816	.0112	
20.000		.4824	.5794	.4977	.1297	-.0806		-.0806	-.0178	-.1304	.0367	-.0128	.0242	.0493	
40.000		.7714	.4811	.4676	.3314	.2853		.2853	.1923	-.2012	.0092	.0290	.0678		
55.000		.9009	.6677	.9651	.4432	.3623		.3623	.2339	-.1984	-.0412	.0220	.0678		
70.000		.9657	.7482	.8200	.5203	.4002		.4002	.2979	-.1047	-.0194	.0174	.0407		
90.000		1.2160	.9995	.7899	.6427	.5725		.6272	.3014	-.0194	-.2923	.0174	.0407		
125.000		.9717	.7830	.7038	.6917			.3333	.3079	-.3409	-.2090	-.0447	-.0134		
140.000		.6308	.7068	.6832	.6998		.7680								
151.000							1.0030								
154.000							.7936								
162.000							.9997								
165.000															
169.000															
174.000															
180.000															
X/LB	.6850	.7300	.7810	.8230	.8650	.9230	.9430	1.0020	1.0210	1.0420					
PHI	.1291	.2076	.3403	.4781	.5432	-.3421	-.3333								
40.000	.1979	.1473	.5966	.1879	-.3113	-.3731	-.3487								
70.000	.1896	.0449	.0117	.3487	.1936	.2709	.2541								
90.000	.1734	.0789	.1889	.5321	.1302	.2427	.2323								
105.000			.3304	.2864	.1139	.2113	.2199								
110.000		.1810	.0391	.4419	.4072	.0973	.2497	.2130							
120.000			.9553	.4007	.3162	.3436	.2247								
135.000			.0079	.3517	.3537	.4471	.4102	.1251							
150.000			-.0893	.0079	.3593	.5597	.4330	.0190							
165.000			-.0893	.3593	.5597	.4330	.0190								
180.000			-.1367	-.0481	.4027	.3330									



ARC11-716 1A14 01-712-S12E5-AT10 CRB. PUSBLAGE (R81833)

ALPHA(X) = -10.280 BETA(O) = -7.920

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3450	.7442	.4176	.4000	.5221	.0000	-.1390	.0622	-.0481	-.2227	-.1632	-.1224	-.0036		
20.000		.4990	.4277	.5130	.0247		-.1701	.1273							
40.000		.7416	.4729	.4672	.2655		.0480	-.1623	-.1677	.0313	-.1026	-.0181	.0237		
55.000		.8431	.6137	.5200	.3630		.2066	.1616							
70.000		.9169	.6694	.5604	.4614		.3037	.1971	-.2206	-.0327	-.0054	.0345			
90.000	1.1490	.9386	.7305	.5832	.5164		.3430	.2004	-.1369	-.1641	-.0129	.0360			
120.000		.9329	.7445	.6622	.6370		.5768	.2379	-.0994	-.3273	-.0129	.0116			
140.000								.2817							
150.000		.8366	.7142	.6627	.6640		.7269	.2343	-.3423	-.1610	-.0703	-.0322			
174.000							.9792								
198.000							.7715								
162.000								-.2245	-.2878	-.1537	-.0459	-.0768			
166.000															
174.000															
190.000	1.3450	.9090	.7093	.6342	.6073	.6440	1.0000								
W/LB	.0000	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0460						

PHI

.000	1.201	.1886	.3480	.4542	-.5240	-.3662	-.3285								
40.000	1.402	.1134	.3216	1.469	-.3143	-.3302	-.3369	-.3023	-.2962						
70.000	.1155	.0175	.0486	.3216	.1834	.2461	.2312	-.3183	-.3010						
90.000	.1224	.0216	.1826	.3213	.1362	.2281	.2276								
105.000		.3239	.2734	.0991	.1971	.1930									
110.000							-.0808								
120.000	.0711	.0416	.6139	.3936	.0846	.2192	.1703	.0662							
135.000		.6133	.4331	.2703	.3115	.1945									
150.000	-.0236	.0379	.4474	.4339	.3693	.0960									
166.000	-.0486		.4311	.4938	.3921	-.0114									
180.000	-.0858	-.0212	.4787	.5448											

ALPHA(X) = -10.280 BETA(O) = -5.920

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3600	.7660	.4506	.4368	.5769	.0000	-.0913	.0632	.0017	-.1036	-.1622	-.1163	-.0736		
20.000		.5128	.4311	.5317	-.0422		-.2474	.1646							
40.000		.7194	.4739	.4697	.2193		-.0405	-.1973	-.1673	.0119	-.0264	-.0467	-.0003		
55.000		.7940	.5736	.4667	.3303		.1343	.1325							
70.000		.8393	.6267	.5108	.4061		.2361	.1057	-.2483	-.0760	-.0354	.0174			
90.000	1.0760	.8787	.6719	.5286	.4627		.2943	.1111	-.1665	-.2144	-.0332	.0148			

DATE 08 DEC 74

TABULATED PRESSURE DATA - 1414A - VOL. 3
ARC11-716 1A14 CHATTERSIZES*ATIO CRG. PUSBLAGE (RB1033)

ALPHAO 1) = -10.250 BETA0 (3) = -5.980

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1700	.2050	.2520	.3010	.3790	.4990	.5790
PWT															
150.000			.0921	.7072	.6295	.6179		.3246		.1870	-.1146	-.3593	-.0531	-.0087	
140.000										.1790					
130.000			.8346	.7179	.6548	.6402		.6802		.0310	-.3382	-.1637	-.0715	-.0346	
124.000								.9516		.7486					
102.000										-.2296	-.2592	-.1643	-.0796	-.0126	
105.000								.9960							
109.000															
174.000							1.1080		.6741						
160.000	1.3600	1.0050	.7462	.6672	.6275	.6283				-.3692	-.2133	-.1557	-.1030	-.1063	

W/LB .6830 .7500 .7810 .8250 .8620 .9250 .9630 1.0020 1.0460

PWT

.000	.1108	.1776	.3100	.3782	-.4581	-.3756	-.3104								
40.000	.0826	.1306	.4794	.1170	-.3025	-.3222				-.2923	-.2683				
70.000	.0844	.0825	.0896	.3053	.1610	.1993	.1902			-.3037	-.2964				
90.000	.0822	.0754	.0207	.2961	.1163	.1611	.1897								
105.000		.3113	.2457	.0753	.1614	.1515									
110.000			.3724	.3175	.0406	.1619	.1209								
120.000	.0682	.0696	.3724	.4650	.1923	.2682	.1545								
136.000				.4872	.4831	.3084	.3175	.0610							
150.000	-.0041	.0641		.4792	.4825	.3375	-.0423								
166.000	-.0250														
180.000	-.0449	.0025	.4809	.5577											

ALPHAO 1) = -10.240 BETA0 (4) = -3.960

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1700	.1790	.2050	.2520	.3010	.3790	.4990	.5790
PWT																
.000	1.1070	.7069	.4533	.4497	.5913	.0000		-.0890		.0496	-.0128	-.1257	-.1392	-.1722	-.0434	
50.000			.5022	.4589	.5440	-.1362		-.2297		.1256						
60.000			.6817	.4616	.4637	.1771		-.0913		-.1234	-.1796	-.0299	-.0499	-.1124	-.0367	
59.000			.7546	.5306	.4492	.2872		.0366		.0366						
70.000			.7945	.5753	.4562	.3608		.0419		.0419	-.2843	-.1265	-.0825	.0002		
90.000	1.0040			.6205	.4768	.4128		.0557		.0557	-.2532	-.2309	-.0638	-.0044		
120.000			.6549	.6637	.5916	.5632		.0969		.0969	-.1657	-.4267	-.0963	-.0284		
140.000								.0852								
150.000			.6293	.7156	.6474	.6784		-.1378		-.1378	-.3396	-.1737	-.0809	-.0417		
171.000								.6220								
194.000																
182.000																.7216



ARC11-716 1A14 CL-118-3185-A110 CR8. PUBLAGEZ (081033)

ALPHAOX 1) = -10.820 BETAO (5) = -1.970

SECTION (1) ORBITER PUBLAGEZ		DEPENDENT VARIABLE CP									
Z/LB	.6930	.7300	.7610	.8230	.8620	.9430	1.0020	1.0210	1.0490		
PWT											
00.000	.0815	.1262	.2775	.3759	.3157	-.3950	-.2932				
40.000	.0391	.1298	.3784	-.0044	-.2537	-.3155	-.2991				
70.000	.0497	.0369	.1643	.2912	.1275	.1275	.1138				
90.000	.0554	.0837	.2209	.2542	.0901	.1101	.1101				
109.000			.2376	.2096	.0397	.0693	.0660				
110.000											
120.000	.0193	.1236	.2967	.1916	-.0491	.0854	.0415				
135.000			.6737	.4934	-.0089	.0864	.0540				
150.000	.0016	.0983	.5916	.6073	.1543	.1470	-.0421				
165.000	-.0005	.5540		.2958	.1995	-.1237					
180.700	-.0049	.0372	.5201	.6416							

ALPHAOX 1) = -10.160 BETAO (8) = .020

SECTION (1) ORBITER PUBLAGEZ		DEPENDENT VARIABLE CP													
Z/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1380	.1670	.1790	.2050	.2380	.3010	.3790	.4990	.5760
PWT															
00.000	1.4130	.7917	.4825	.4325	.5766	.0000									
20.000			.4813	.4403	.5339	-.2778									
40.000			.6040	.4239	.4303	.0729									
55.000			.6268	.4407	.3747	.2034									
70.000			.6716	.4611	.3229	.2910									
90.000		.6461	.6899	.4961	.3696	.3118									
120.000			.7378	.5709	.4919	.5030									
140.000															
150.000			.7091	.6625	.6097	.6368									
171.000															
194.000															
182.000															
136.000															
169.000															
174.000															
190.000	1.4130	1.0260	.7962	.7022	.6547	.6975	1.0700								

Z/LB	.6930	.7300	.7610	.8230	.8620	.9430	1.0020	1.0210	1.0490		
PWT											
00.000	.0678	.1255	.1996	.1836	-.2396	-.3357	-.2914				
40.000	.0276	.1072	.2099	-.0664	-.2971	-.2995	-.3024				
70.000	.0416	.0913	.1950	.2736	.1055	.1000	.0875				
90.000	.0413	.0973	.2049	.2307	.0544	.0737	.0674				
109.000			.2362	.1726	.0213	.0367	.0461				
110.000											



081833)

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ARC11-716 1A14 O-TIER-SIGMA-RATIO CRG. PUSHLARE

ALPHAX (1) = -10.160 BETAO (6) = .020

SECTION (1) CRITTER PUSHLARE DEPENDANT VARIABLE CP

W/LB	.6000	.7500	.7610	.8200	.8820	.9200	.9400	1.0000	1.0210	1.0400
PHI										
120.000	-.0072	.1438	.1928	.0823	-.1149	.0427	-.0086	-.0875		
130.000		.0234	.0676	-.0790	-.0340	-.0146				
150.000	-.0090	.1098	.0679	.0901	.1046	.0808	-.1149			
160.000	-.0044	.0944	.0906	.2364	.0763	-.1814				
180.000	-.0005	.0881	.5953	.6990						

ALPHAX (1) = -10.160 BETAO (7) = 2.040

SECTION (1) CRITTER PUSHLARE DEPENDANT VARIABLE CP

W/LB	.0000	.0090	.0200	.0470	.0700	.1100	.1590	.1670	.1780	.2070	.2300	.3010	.3790	.4990	.5760
PHI															
80.000	1.4000	.7761	.6235	.4801	.3529	.0000	-.0238	.0316	-.0449	-.1319	-.1626	-.1911	-.0372		
90.000		.4431	.4134	.4908	-.3265		-.1099	-.0078	-.0547	-.0942	-.1090	-.1688	-.1492	-.0129	
40.000		.5442	.3922	.3991	.0305		-.1801	-.1201	-.0246	-.0496	-.2430	-.1410	-.0461		
70.000		.9376	.3001	.3248	.1723		.0893	-.0470	-.0470	-.0294	-.3969	-.1293	-.0532		
70.000		.6013	.3964	.2990	.2396		.0642	-.1337	-.3594	-.0462	-.3000	-.3032	-.1282		
90.000		.7459	.6292	.4309	.3075	.2374	.3114	-.1111	-.3060	-.5332	-.3032	-.3032	-.1282		
120.000		.6948	.5181	.4273	.4928		.2473	-.2473	-.3368	-.1412	-.1740	-.0916			
140.000		.7532	.6573	.5703	.6002		.5038	-.2535	-.3368	-.1412	-.1740	-.0916			
150.000							.7923	.6090	.2227	-.3373	-.3936	-.1365	-.0931		
171.000															
196.000															
182.000							.9394								
190.000															
174.000	1.4000	1.0000	.7906	.7007	.6403	.6801	1.0000	.9490	-.2850	-.3214	-.0734	-.1176	-.0684		
160.000	.6000	.7000	.7610	.8200	.8600	.9200	.9400	1.0000	1.0210	1.0400					

SECTION (1) CRITTER PUSHLARE DEPENDANT VARIABLE CP

W/LB	.6000	.7500	.7610	.8200	.8820	.9200	.9400	1.0000	1.0210	1.0400
PHI										
40.000	.0807	.1090	.1993	.1360	-.2727	-.2866	-.2901	-.2738	-.2063	
40.000	.0216	.0896	.1906	-.1705	-.3176	-.3060	-.3036	-.2474	-.2323	
70.000	.0408	.0437	.1427	.2718	.0821	.0700	.0646			
90.000	.0344	.0644	.1893	.2241	.0376	.0412	.0311			
100.000		.2194	.1392	.0030	.0248	.0175	-.1481			
110.000	-.0195	.1521	.1113	.0009	-.1805	.0072	-.0477			
120.000		.9033	.6234	-.1472	-.1472	-.0648				
130.000	-.0847	.1203	.5602	.6794	.0987	-.0034	-.1730			
150.000	-.0139	.5983	.5983	.1954	.0197	-.2226				
160.000	-.0036	.0612	.2490	.6543						

ARC11-716 1A14 OR-T12-SIZES-MATIO CRG. PURLAGE (001833)

ALPHAX (1) = -10.200 BETA0 (9) = 4.000

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

M/L/S	.0000	.0000	.0200	.0470	.0700	.1120	.1900	.1670	.1700	.2050	.2900	.3010	.3750	.4950	.3700
PHI															
.000	1.3010	.7247	.3006	.3096	.5139	.0100		-.0409		.0253	-.0007	-.1023	-.2032	-.1737	-.0706
20.000		.3756	.3016	.4009	-.3703			-.0505		.0059					
40.000		.4307	.3432	.3704	-.0175			-.1245		-.0574	-.1015	-.1726	-.2204	-.1209	-.0300
60.000		.4704	.3900	.2907	.1309			.0327		-.1392					
80.000		.5108	.3344	.2356	.2247			-.0132		-.0819	-.4532	-.2796	-.1485	-.0426	
100.000	.6911	.5463	.3981	.2478	.2304			.0390		-.1814	-.4055	-.2277	-.1301	-.0481	
120.000		.6237	.3648	.3028				.2447		-.1711	-.3364	-.2991	-.3509	-.1379	
140.000										-.3098					
160.000		.7075	.6219	.5419	.3729				.4419	-.2702	-.3307	-.1306	-.1932	-.1474	
180.000															
194.000								.7378							
162.000									.9631						
169.000										-.2110	-.3309	-.1046	-.1433	-.1190	
174.000						1.0380		.9114							
160.000	1.3010	.9043	.7032	.6031	.6393	.6720		.9355		-.3772	-.2377	-.1007	-.1096	-.0622	
160.000	.6000	.7200	.7010	.6220	.6020	.6230	.9400	1.0020	1.0210	1.0400					

PHI

M/L/S	.0000	.0000	.0200	.0470	.0700	.1120	.1900	.1670	.1700	.2050	.2900	.3010	.3750	.4950	.3700
.000	1.3010	.7247	.3006	.3096	.5139	.0100		-.0409		.0253	-.0007	-.1023	-.2032	-.1737	-.0706
20.000		.3756	.3016	.4009	-.3703			-.0505		.0059					
40.000		.4307	.3432	.3704	-.0175			-.1245		-.0574	-.1015	-.1726	-.2204	-.1209	-.0300
60.000		.4704	.3900	.2907	.1309			.0327		-.1392					
80.000		.5108	.3344	.2356	.2247			-.0132		-.0819	-.4532	-.2796	-.1485	-.0426	
100.000	.6911	.5463	.3981	.2478	.2304			.0390		-.1814	-.4055	-.2277	-.1301	-.0481	
120.000		.6237	.3648	.3028				.2447		-.1711	-.3364	-.2991	-.3509	-.1379	
140.000										-.3098					
160.000		.7075	.6219	.5419	.3729				.4419	-.2702	-.3307	-.1306	-.1932	-.1474	
180.000															
194.000								.7378							
162.000									.9631						
169.000										-.2110	-.3309	-.1046	-.1433	-.1190	
174.000						1.0380		.9114							
160.000	1.3010	.9043	.7032	.6031	.6393	.6720		.9355		-.3772	-.2377	-.1007	-.1096	-.0622	
160.000	.6000	.7200	.7010	.6220	.6020	.6230	.9400	1.0020	1.0210	1.0400					

ALPHAX (1) = -10.200 BETA0 (9) = 6.000

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

M/L/S	.0000	.0000	.0200	.0470	.0700	.1120	.1900	.1670	.1700	.2050	.2900	.3010	.3750	.4950	.3700
PHI															
.000	1.3010	.7015	.3167	.3063	.5026	.0000		-.0376		-.0053	-.0793	-.1618	-.2299	-.1822	-.0670
20.000		.3105	.3399	.4036	-.4421			-.0436		-.0091					
40.000		.3615	.2938	.3906	-.1101			-.1145		-.0373	-.0874	-.2148	-.2741	-.1710	-.0470
60.000		.3937	.2791	.2611	.0976			.0159		-.0203					
80.000		.4399	.2409	.2129	.1929			-.0307		-.1108	-.4743	-.3031	-.1369	-.0794	
100.000	.9181	.4706	.2804	.1903	.1800			-.0016		-.2244	-.4433	-.4493	-.1096	-.0707	



ARC11-716 1A14 01+112+1125+AT10 CRB. FUSELAGE (RE1233)

ALPHAO (1) = -10.230 BETA0 (10) = 6.120

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
165.000															
168.000															
174.000															
180.000															
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHAO (1) = -10.240 BETA0 (11) = 10.110

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
156.000															
162.000															
168.000															
174.000															
180.000															
X/LB	.6330	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

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(R81833)

MFC11-716 1A14 CH+712+512E3+AT10 CR6. PUSBLAGE

ALPHAO(1) = -10.240 BETA0(11) = 10.110

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

M/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0490
PHI										
.000	-.0755	-.0245	.0575	.0695	-.3614	-.3966	-.3515		-.3206	-.2922
40.000	-.0659	-.0062	.1125	-.3971	-.4683	-.4306	-.3379		-.3415	-.3306
70.000	-.0312	-.0400	.1102	.2635	-.0069	-.0543	-.0503			
90.000	-.1275	.0187	.1330	.1913	-.0308	-.0420	-.0459			
105.000		.1456	.1310	-.0769	-.0644	-.0661				
110.000										-.2208
120.000	-.0587	.1137	-.1482	-.3778	-.3277	-.3935	-.3274		-.2737	
135.000			.1786	.1219	-.4194	-.4577	-.4630			
150.000	-.1960	.0272	.4084	.7436	-.0621	-.1884	-.3203			
165.000	-.1374		.4431		.0645	-.1331	-.2961			
180.000	-.1960	-.0695	.4611	.9933						

ALPHAO(2) = -8.220 BETA0(1) = -9.940

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.3180	.7319	.3773	3.4615	.5177	.0000		-.2093		.0767	-.0895	-.1827	-.1071	-.0780	.0134
20.000		.4611	.3839	.4774	.1096		-.1055		-.0043		-.1290	.0624	-.0322	.0213	.0420
40.000		.7781	.4640	.4505	.3248		.1047			.1915					
55.000		.9031	.6536	.5480	.4349		.3563		.2348	-.2022	-.0039	.0031	.0031	.0418	
70.000		.9760	.7286	.5920	.5046		.4096		.2920	-.1155	-.0376	-.0064	.0364	.0364	
90.000	1.8030	.9604	.7637	.6150	.5551		.6168		.2865	-.0316	-.3043	-.0452	-.0003	-.0003	
120.000		.9326	.7337	.6579	.6549				.3021						
140.000		.7742	.6477	.5964	.6544				.2712	-.3751	-.2323	-.0672	-.0575		
150.000															
151.000					.9941										
156.000									.7750						
165.000										-.2137	-.3823	-.2171	-.1210	-.1077	
169.000															
174.000															
180.000	1.3120	.9175	.6103	.5365	.9233	.5799									
PHI						1.0710									
40.000	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0490					
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

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(R81835)

ARC11-716 1A14 C1+112+S12M2+AT10 CRB. FUSELAGE

ALPHAX (2) = -8.220 BETA0 (1) = -9.940

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.0466	.0046	.3658	.4210	.0231	.1977	.1405	.0791		
135.000			.4992	.3214	.2432	.3121	.1915			
150.000	-.0539	-.0457	.2616	.2637	.4017	.3619	.1013			
165.000	-.1192		.2899		.9214	.4003	.0070			
180.000	-.1753	-.1061	.3480	.4799						

ALPHAX (2) = -8.240 BETA0 (2) = -7.960

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2920	.3010	.3790	.4990	.5760
PHI															
.000	1.3390	.7360	.4047	.3766	.5373	.0000		-.2046		.0617	-.0632	-.2342	-.1603	-.1101	-.0175
20.000			.4830	.4026	.4961	-.0022		-.2129		.0630					
40.000			.7474	.4524	.4498	.2455		.0157		-.1690	-.1765	.0307	-.1179	-.0160	.0213
55.000			.8445	.5999	.5027	.3646		.2034		.1573					
70.000			.9115	.6635	.5330	.4416		.2960		.1906	-.2319	-.0435	-.0396	.0041	
90.000	1.1370		.9182	.7029	.5266	.4935		.3354		.1942	-.1905	-.1563	-.0315	.0043	
120.000			.8936	.6961	.6199	.6211		.5663		.2178	-.0753	-.3449	-.0515	-.0206	
140.000			.7616	.6576	.6002	.6496				.1845	-.3762	-.2374	-.1101	-.0723	
150.000								.9636							
176.000								.7486							
182.000										-.2551	-.3271	-.1976	-.1260	-.1171	
189.000															
174.000							1.0760								
190.000	1.3390	.9410	.6545	.5641	.5313	.6017		.9612							
X/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.1350	.2199	.3590	.4510	-.4993	-.3665	-.3145								
40.000	.1096	.1966	.5490	.1702	-.3014	-.3447	-.3273								
70.000	-.0684	-.0304	-.0624	.2820	.1447	.1678	.1976								
90.000	.0757	.0075	.1097	.2729	.1013	.1425	.1667								
105.000			.2725	.2054	.0647	.1293	.1480								
112.000															
120.000	.0170	.0098	.3537	.3686	.0231	.1758	.1199								
135.000			.5572	.4073	.1691	.2792	.1629								
150.000	-.0678	-.0060	.3991	.3762	.3386	.3346	.0678								
165.000	-.1020		.4033		.4543	.3561	-.0344								
180.000	-.1176	.0064	.4293	.4922											



ARC11-716 1A14 01+712+512K23+AT10 CRB. FUSELAGE RB181931

ALPHA(2) = -8.240 BETA(3) = -5.960

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.3790	.7914	.4259	.3960	.5940	.0000		-.1277		.0562	-.0160	-.1140	-.1658	-.1442	-.0684
20.000		.4933	.4141	.5085	-.0757		-.2684		.1547						
40.000		.7113	.4463	.4450	.2016		-.0654			-.1696	-.1704	.0057	-.0328	-.0784	-.0011
55.000		.7644	.5322	.4589	.3109		.1496		.1281						
70.000			.8404	.6005	.4786	.3768		.2496	.0998	-.2626	-.0879	-.0705	-.0705	-.0185	
90.000	1.0950		.8323	.6408	.4923	.4364	.2874		.1072	-.1822	-.2218	-.0799	-.0799	-.0185	
120.000		.8308	.6338	.5711	.5808		.3162		.1471	-.1325	-.3783	-.0797	-.0797	-.0367	
140.000									.1340						
150.000		.7774	.6563	.5940	.6416				-.0436	-.3796	-.2085	-.1119	-.1119	-.0758	
151.000							.9314		.6695						
156.000									.7228						
162.000										-.2990	-.3161	-.2085	-.1211	-.1112	
165.000															
169.000															
174.000						1.0860		.9712							
180.000	1.3790	.9333	.6826	.6072	.5711	.6139		.8446			-.3947	-.2997	-.1859	-.1447	-.1420

X/LE .6630 .7900 .7610 .6230 .8820 .9230 .9630 1.0020 1.0210 1.0480

PHI

.000	.1240	.2050	.3166	.3647	-.4362	-.3549	-.3011		-.2823	-.2713					
40.000	.1809	.1892	.5127	.1410	-.2932	-.3246	-.3113		-.2883	-.2851					
70.000	.0454	-.0330	-.0206	.2361	-.1254	.1330	.1535								
90.000	.0575	.0061	.1231	.2493	.0811	.1071	.1491								
105.000			.2610	.1913	.0375	.0959	.1164								
110.000								-.0704							
120.000	.0810	.0421	.3351	.3097	-.0029	.1375	.0847	-.0006							
135.000			.5669	.4329	.0765	.2322	.1275								
150.000	-.0390	.0213	.4293	.4319	.2563	.2815	.0316								
165.000	-.0604		.4373	.3798	.2996	-.0686									
180.000	-.0757	-.0226	.4487	.4939											

ALPHA(2) = -8.250 BETA(4) = -3.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.4080	.7914	.4265	.4219	.5779	.0000		-.1324		.0330	-.0205	-.1299	-.1436	-.1632	-.0412
20.000		.4843	.4209	.9223	-.1489		-.2500		.1238						
40.000		.6737	.4390	.4400	.1987		-.0696			-.1214	-.1777	-.0278	-.0600	-.1143	-.0373
55.000			.7276	.5114	.4259	.2707		.1544	.0425						
70.000		.7809	.5497	.4321	.4259	.3321	.2503		.0387	-.2909	-.1363	-.1007	-.1007	-.0234	
90.000		.9869	.7967	.5672	.4432	.5933		.2347	.0543	-.2654	-.2605	-.1004	-.1004	-.0292	

(R81833)

ARC11-716 IA14 047124512425-AT10 CRB. FUSELAGE

ALPHAO (2) = -8.250 BETA0 (4) = -3.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2920	.3010	.3790	.4990	.5760
PHI															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000															
X/LB															
PHI															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHAO (2) = -8.250 BETA0 (5) = -1.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2920	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
154.000															
162.000															

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TABULATED PRESSURE DATA - 1A14A - V2L. 3

(R51933)

ARC11-716 1A14 01+T12+S12E2+AT10 CRG. FUSelage

ALPHA(2) = -0.250 BETA(6) = .010

SECTION (1) ORBITER FUSelage DEPENDENT VARIABLE CP

X/LB	.6530	.7368	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0784	.1365	.2036	.1785	-2.666	-.3121	-.2763		-.2530	-.2703
40.000	.0467	.1365	-.2861	-.0461	-.2827	-.2885	-.2876		-.2543	-.2340
70.000	.0174	-.0031	.6930	2.401	.0634	.0634	.0541			
90.000	.0210	.0436	.1619	.2045	.0295	.0404	.0393			
105.000		.2876	.1431	-.0051	.0200	.0172				
110.000								-.1362		
120.000	-.0218	.1007	.1876	.0948	-.1430	.0101	-.0307	-.0937		
135.000		.9679	.4310	-.0927	-.0451	-.0385				
150.000	-.0322	.0750	.5212	.6057	.0805	.0343	-.1370			
165.000	-.0251		.5155		.2160	.0502	-.1997			
180.000	-.0276	.0456	.5111	.6057						

ALPHA(2) = -0.250 BETA(7) = 2.020

SECTION (1) ORBITER FUSelage DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2070	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.4050	.7822	.4000	.3653	.4904	.0000		-.0447		.0242	-.0463	-.1351	-.1931	-.2036	-.0419
20.000		.4208	.3767	.4569	-.3262			-.1345		-.0128					
40.000		.5312	.3547	.3547	.0149			-.1165		-.0351	-.0762	-.1129	-.1650	-.1741	-.0199
55.000		.5436	.3676	.1864		.0790				-.1194					
70.000		.3822	.3686	.2368	.2282	.0175				-.0471	-.4333	-.2575	-.1811	-.0680	
90.000		.7206	.6063	.4041	.2692	.2331				-.1307	-.378	-.4068	-.1803	-.0769	
120.000		.6618	.4795	.3909	.4278	.3119				-.1186	-.3249	-.5508	-.3025	-.1360	
140.000										-.2658					
150.000		.7079	.6097	.6155	.5646					-.2977	-.3658	-.1913	-.2030	-.1095	
151.000									.4908						
156.000									.7621						
162.000															
165.000															
168.000															
174.000							1.0490								
180.000	1.4050	.9370	.7365	.6509	.5960	.6590									
X/LB	.9330	.7500	.7810	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

.4908

.7621

.9908

.9244

.9319

.9319

1.0490

1.0020

1.0210

1.0480

1.0480

1.0480

1.0480

1.0480

1.0480

1.0480

1.0480

1.0480

1.0480

1.0480

1.0480

1.0480

1.0480



(R1833)

MFC11-716 1A14 OR-TIE-SIZES-RATIO ORB. FUEL-LAGE

ALPHA(X) Z1 = -0.220 BETA(O) (9) = 0.030

SECTION (1) ORBITER FUEL-LAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2920	.3010	.3790	.4990	.5760
PHI															
.000	1.3750	.7161	.2900	.3239	.4733	.0000		-.0700		.0078	-.0741	-.1924	-.2293	-.1775	-.0608
20.000			.2836	.5030	.4434	-.4364		-.0666		-.0163					
40.000			.3603	.2376	.3264	-.1339		-.1161		-.0361	-.0917	-.2166	-.2797	-.1676	-.0467
55.000			.3735	.2416	.2333	.0590		.0099		-.1270					
70.000			.4194	.2333	.1894	.1593		-.0335		-.1030	-.4658	-.3119	-.1991	-.0927	
90.000		.4695	.4543	.2358	.1669	.1664		.0001		-.2115	-.4913	-.4514	-.1913	-.0930	
120.000			.5214	.3463	.2301	.3225		.1832		-.2217	-.3744	-.3654	-.3690	-.1836	
140.000										-.3752					
150.000			.6017	.3239	.4403	.4666			.3677	-.3399	-.4146	-.1671	-.2332	-.2009	
151.000									.6717						
156.000															
162.000										-.2238	-.3431	-.1666	-.1775	-.1696	
165.000															
169.000															
174.000						.6631									
180.000	1.3750	.6664	.6960	.6062	.5963	.6084		.6635		-.4015	-.2455	-.1696	-.1367	-.1366	

W/LB .6680 .7300 .7610 .6250 .6620 .9230 .9630 1.0210 1.0460

SECTION (1) ORBITER FUEL-LAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2920	.3010	.3790	.4990	.5760
PHI															
.000	1.3750	.7161	.2900	.3239	.4733	.0000		-.0700		.0078	-.0741	-.1924	-.2293	-.1775	-.0608
20.000			.2836	.5030	.4434	-.4364		-.0666		-.0163					
40.000			.3603	.2376	.3264	-.1339		-.1161		-.0361	-.0917	-.2166	-.2797	-.1676	-.0467
55.000			.3735	.2416	.2333	.0590		.0099		-.1270					
70.000			.4194	.2333	.1894	.1593		-.0335		-.1030	-.4658	-.3119	-.1991	-.0927	
90.000		.4695	.4543	.2358	.1669	.1664		.0001		-.2115	-.4913	-.4514	-.1913	-.0930	
120.000			.5214	.3463	.2301	.3225		.1832		-.2217	-.3744	-.3654	-.3690	-.1836	
140.000										-.3752					
150.000			.6017	.3239	.4403	.4666			.3677	-.3399	-.4146	-.1671	-.2332	-.2009	
151.000									.6717						
156.000															
162.000										-.2238	-.3431	-.1666	-.1775	-.1696	
165.000															
169.000															
174.000						.6631									
180.000	1.3750	.6664	.6960	.6062	.5963	.6084		.6635		-.4015	-.2455	-.1696	-.1367	-.1366	

W/LB .6680 .7300 .7610 .6250 .6620 .9230 .9630 1.0210 1.0460

SECTION (1) ORBITER FUEL-LAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2920	.3010	.3790	.4990	.5760
PHI															
.000	1.3750	.7161	.2900	.3239	.4733	.0000		-.0700		.0078	-.0741	-.1924	-.2293	-.1775	-.0608
20.000			.2836	.5030	.4434	-.4364		-.0666		-.0163					
40.000			.3603	.2376	.3264	-.1339		-.1161		-.0361	-.0917	-.2166	-.2797	-.1676	-.0467
55.000			.3735	.2416	.2333	.0590		.0099		-.1270					
70.000			.4194	.2333	.1894	.1593		-.0335		-.1030	-.4658	-.3119	-.1991	-.0927	
90.000		.4695	.4543	.2358	.1669	.1664		.0001		-.2115	-.4913	-.4514	-.1913	-.0930	
120.000			.5214	.3463	.2301	.3225		.1832		-.2217	-.3744	-.3654	-.3690	-.1836	
140.000										-.3752					
150.000			.6017	.3239	.4403	.4666			.3677	-.3399	-.4146	-.1671	-.2332	-.2009	
151.000									.6717						
156.000															
162.000										-.2238	-.3431	-.1666	-.1775	-.1696	
165.000															
169.000															
174.000						.6631									
180.000	1.3750	.6664	.6960	.6062	.5963	.6084		.6635		-.4015	-.2455	-.1696	-.1367	-.1366	



0818331

ARC11-T-6 1A14 CR-712-918E-2-AT10 CRB. PURCHASE

ALPHAX 21 = -0.220 SGTAO (11) = 10.130

SECTION (1) CRITTER PURCHASE DEPENDENT VARIABLE CP

W/L/S	.0000	.0000	.0230	.0470	.0700	.1120	.1360	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
105.000															
100.000															
174.000															
100.000															
W/L/S	.0000	.7300	.7610	.8230	.8620	.9230	.9430	1.0020	1.0210	1.0460					
PHI															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
100.000															

PHI															
.000															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
100.000															

ALPHAX 31 = -6.250 SGTAO (1) = -9.970

SECTION (1) CRITTER PURCHASE DEPENDENT VARIABLE CP

W/L/S	.0000	.0000	.0230	.0470	.0700	.1120	.1360	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
80.000															
40.000															
95.000															
70.000															
90.000															
120.000															
140.000															
171.000															
174.000															
100.000															

PHI															
.000															
80.000															
40.000															
95.000															
70.000															
90.000															
120.000															
140.000															
171.000															
174.000															
100.000															

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0810333

ARC11-716 1A14 OR-TIE-SYSTEMS-AT10 CRG. PUSBLAGE

ALPHA(X) = -0.280 BETA(O) = -0.970

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7500	.7510	.8230	.8400	.9030	.9430	1.0000	1.0210	1.0400
PHI										
.000	-.782	-.290	.3720	.604	-.5438	-.3682	-.3733			
40.000	-.2416	.3091	.0097	.2358	-.3831	-.5149	-.4556			
70.000	.0677	-.0433	-.1106	.2302	.1119	.1431				
90.000	.0011	-.0057	-.0091	.2300	.0003	.0443	.1476			
105.000			.1637	.1645	.0310	.0242	.1227			
110.000							-.0206			
120.000	-.0100	-.0471	.3434	.4030	-.0174	.1333	.0996			
135.000			.3908	.2631	.1244	.2013	.1707			
150.000	-.0081	-.0073	.2135	.1856	.3367	.3554	.0832			
165.000	-.1681	.2368		.4660	.3710	-.0039				
180.000	-.1829	-.1281	.3073	.3978						

ALPHA(X) = -0.280 BETA(O) = -7.990

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0200	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3780	.4990	.5760
PHI																
.000	1.3370	.7703	.3098	.3282	.3313	.0000										
20.000			.4608	.3793	.4645	-.0290										
40.000			.7291	.4367	.4336	.2279										
55.000			.8304	.5876	.4780	.3440										
70.000			.9030	.6443	.5022	.4193										
85.000	1.1120	.8993	.6779	.5132	.4717	.3369										
100.000			.7823	.6484	.5082	.3613										
120.000			.7829	.5889	.5346	.4032										
135.000																
150.000																
165.000																
180.000	1.3090	.8020	.5939	.5043	.4972	.3793										
174.000							1.0740									
190.000	.6980	.7800	.7510	.6230	.6020	.4630	.4630	.4630	.4630	.4630	.4630	.4630	.4630	.4630	.4630	.4630

PHI																
.000																
20.000																
40.000																
55.000																
70.000																
85.000																
100.000																
120.000																
135.000																
150.000																
165.000																
180.000																

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ARC11-716 1A14 2A-T12M-SIEMENS-RATIO CRG. PUBLAGE

0810331

ALPHA(X 3) = -6.000 BETA(O 2) = -7.990

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.6830	.7300	.7810	.8230	.8650	.9070	.9490	1.0010	1.0430
PHI									
120.000	-.0234	-.0437	.3071	.3747	-.0548	.1230	.0901	.0183	
135.000			.4893	.3364	.0762	.2313	.1400		
150.000	-.1028	-.0287	.3489	.3830	.2396	.3048	.0306		
165.000	-.1392		.3692	.4209	.3206	-.0484			
180.000	-.1475	.0282	.3883	.4230					

ALPHA(X 3) = -6.000 BETA(O 3) = -6.000

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1360	.1670	.2070	.2520	.3010	.3790	.4990	.5760
PHI														
120.000	1.2870	.0095	.6142	.3779	.5489	.0000	-.2095	.0953	-.0238	-.1175	-.1915	-.1478	-.0293	
135.000			.4896	.3786	.4996	-.0963	-.2834	.1196						
150.000			.7182	.4275	.4311	.1634	-.0400	-.1701	-.1396	.0123	-.0296	-.0615	-.0089	
165.000			.7848	.3982	.4311	.2980	.1601	.1348						
180.000			.8348	.3919	.4454	.3283	.2338	.1081	-.2824	-.0943	-.0961	-.0443		
195.000	1.0430		.8328	.6107	.4930	.4136	.2829	.1096	-.1921	-.2130	-.1112	-.0411		
210.000			.8123	.6082	.5222	.5173	.5117	.1378	-.1389	-.3818	-.1112	-.0688		
225.000			.7834	.5906	.5795	.5967		-.0943	-.6084	-.2477	-.1437	-.1049		
240.000							.9196	.6989						
255.000							.7042		-.2671	-.3927	-.2422	-.1982	-.1392	
270.000							.9539							
285.000	1.2870	.6076	.6270	.5966	.5180	.5715	1.0680	.0295	-.4042	-.2970	-.2261	-.1778	-.1875	
300.000	.6870	.7200	.7910	.8230	.8630	.9230	.9430	1.0020	1.0210	1.0490				

ALPHA(X 3) = -6.000 BETA(O 3) = -6.000

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.6830	.7300	.7810	.8230	.8650	.9070	.9490	1.0010	1.0430
PHI									
120.000	1.431	.2256	.3287	.3804	-.4738	-.4064	-.3913	-.2798	-.2651
135.000	.1897	.2370	.5412	.1760	-.3721	-.4522	-.4073	-.2926	-.2396
150.000	.0179	-.0806	-.1072	.2177	.0846	.0771	.1029		
165.000	.0272	-.0346	.0471	.1947	.0202	.0380	.1038		
180.000			.2117	.1337	.0101	.0144	.0743		
195.000	-.0280	-.6075	.3111	.3138	-.0418	.0991	.0541	-.0142	
210.000			.3140	.3838	.0333	.1979	.1082		
225.000	-.0463	-.0218	.3758	.3807	.2082	.2488	.0142		
240.000	-.0281		.3841	.3493	.2886	-.0843			
255.000	-.0281	-.6436	.3890	.4454					



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MRC11-716 IAI4 Q1-T18-SIDE-RATIO CRG. PURCHASE (818153)

ALPHA(X) = -0.208 BETA(X) = -3.960

SECTION (1) - CRIBBITER PURCHASE DEPOSIT VARIABLE CP

W/LB	0.000	0.000	0.000	0.0470	0.0700	0.1120	0.1990	0.1670	0.1700	0.2050	0.2920	0.3010	0.3790	0.4990	0.5790
PM1	.000	1.4030	0.0006	.4008	.3638	.9608	.0000	-.1496	.0168	-.0427	-.1256	-.1378	-.1669	-.0212	
80.000				.4893	.3491	.4996	-.1532	-.2373	.1210						
40.000				.9706	.4147	.1451		-.0949	-.1110	-.1714	-.0216	-.0456	-.1169	-.0332	
91.000				.7241	.4884	.3935	2.699	.1422	.0993						
70.000				.7893	.5237	.3948	.3060	.1930	.0464	-.2832	-.1374	-.1211	-.0304		
90.000				.9721	.5967	.4024	3.754	.2114	.0654	-.2737	-.2577	-.1299	-.0484		
120.000				.7773	.5763	.4912	.3091	.4596	.0777	-.1624	-.4439	-.1396	-.0994		
140.000									.0337						
160.000				.7228	.6006	.5330	.9907		-.2532	-.4079	-.2490	-.1468	-.0990		
191.000								.6662	.0181						
182.000									.6799						
169.000								.9490		-.2087	-.3030	-.2441	-.1020	-.1246	
174.000										-.7979	-.3362	-.1903	-.1631	-.1396	
167.000															

W/LB	0.000	0.000	0.000	0.0470	0.0700	0.1120	0.1990	0.1670	0.1700	0.2050	0.2920	0.3010	0.3790	0.4990	0.5790
PM1	.000	1.4030	0.0006	.4008	.3638	.9608	.0000	-.1496	.0168	-.0427	-.1256	-.1378	-.1669	-.0212	
80.000				.4893	.3491	.4996	-.1532	-.2373	.1210						
40.000				.9706	.4147	.1451		-.0949	-.1110	-.1714	-.0216	-.0456	-.1169	-.0332	
91.000				.7241	.4884	.3935	2.699	.1422	.0993						
70.000				.7893	.5237	.3948	.3060	.1930	.0464	-.2832	-.1374	-.1211	-.0304		
90.000				.9721	.5967	.4024	3.754	.2114	.0654	-.2737	-.2577	-.1299	-.0484		
120.000				.7773	.5763	.4912	.3091	.4596	.0777	-.1624	-.4439	-.1396	-.0994		
140.000									.0337						
160.000				.7228	.6006	.5330	.9907		-.2532	-.4079	-.2490	-.1468	-.0990		
191.000								.6662	.0181						
182.000									.6799						
169.000								.9490		-.2087	-.3030	-.2441	-.1020	-.1246	
174.000										-.7979	-.3362	-.1903	-.1631	-.1396	
167.000															

ALPHA(X) = -0.100 BETA(X) = .030

SECTION (1) - CRIBBITER PURCHASE DEPOSIT VARIABLE CP

W/LB	0.000	0.000	0.000	0.0470	0.0700	0.1120	0.1990	0.1670	0.1700	0.2050	0.2920	0.3010	0.3790	0.4990	0.5790
PM1	.000	1.4030	0.1443	.3038	.3691	.9134	.0000	-.0472	.0217	-.0564	-.1371	-.1693	-.2113	-.0004	
80.000				.4343	.3609	.4716	-.2777	-.2063	.0245						
40.000				.9714	.3630	.3703	.0366	-.1050	-.0755	-.1026	-.0665	-.0772	-.1021	-.0033	
91.000				.9906	.3903	.3096	.1641	.0707	-.0833						
70.000				.6006	.4043	.2983	.2227	.0432	-.0098	-.4096	-.2237	-.1830	-.0432		
90.000				.6006	.4043	.2983	.2227	.0432	-.0098	-.4096	-.2237	-.1830	-.0432		
120.000				.7096	.6440	.4378	.2663	.1170	-.0743	-.3503	-.3763	-.1737	-.0434		

DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

(RB1233)

ARC11-716 1A14 0A+12+S12M25+AT10 CRB. FUSELAGE

ALPHA (S) = -6.160 BETA (S) = .050

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.16	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
120.000				.6769	.4674	.4004	.4395	.5551		-.0732	-.3030	-.4936	-.2141	-.1166	
140.000										-.1766					
150.000				.6660	.5730	.4960	.5907			-.3051	-.3490	-.2734	-.1666	-.1067	
151.000								.6176							
196.000									.6122		-.2858	-.3592	-.1661	-.1096	
162.000															
169.000								.9295							
174.000				.6779	.9672	.5360	.5919			-.3778	-.4015	-.1561	-.1664	-.1019	
160.000	1.4060	.9155	.7500	.7610	.6230	.6620	.9230	1.0020	1.0210	1.0460					
X/LB	.6630	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.16	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
40.000				.0976	.1951	.2067	.1663	.2662	-.3086	-.2602		-.2534	-.2532		
70.000				.0793	.1551	.2875	-.0352	-.2660	-.2666	-.2716		-.2586	-.2397		
90.000				-.0049	-.0379	.0251	.1970	.0553	.0247	.0189					
104.000				.0008	.0076	.1165	.1655	-.0032	-.0035	.0066					
110.000						.1679	.1113	-.0354	-.0229	-.0166					
120.000				-.0301	.0710	.1775	.1129	-.1790	-.0223	-.0611					
135.000						.5165	.4402	-.1055	-.0570	-.0632					
150.000				-.0460	.0646	.4702	.5535	.0591	.0101	-.1367					
165.000				-.0466		.4647	.1971	.0270	-.2174						
160.000	-.0462	.0449	.4663	.5463											

ALPHA (S) = -6.320 BETA (S) = 2.000

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.16	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
20.000				1.4160	.7960	.3679	.3364	.4544	.0000						
40.000						.9935	.9327	.4149	-.3247						
55.000						.5133	.3213	.3174	-.0016						
70.000						.5250	.3286	.2526	.1428						
90.000						.5630	.3426	.2301	.2006						
120.000				.6940	.5817	.3764	.2307	.2296							
140.000						.6261	.4406	.3508	.3967						
150.000						.6563	.5542	.4818	.5215						
156.000															
162.000															



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(M81833)

ARC11-716 1A14 OR-T12-S12E5-A110 ORB. FUSELAGE

ALPHA(X) = -6.360 BETA(O) = 2.000

SECTION (1): ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
165.000															
169.000															
174.000															
180.000	1.4160	.6991	.6607	.9693	.5538	.9697	1.0300	.9065							
X/LB	.6630	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0666	.1446	.1779	.1312	-.2547	-.2791	-.2633								
40.000	.0487	.1032	.1709	-.1499	-.2913	-.2644	-.2799								
70.000	.0227	.0330	.0591	.1959	.0400	.0037	-.0038								
90.000	.0053	.0191	.1140	.1545	-.0110	-.0293	-.0255								
105.000		.1799	.0760	-.0514	-.0413	-.0413									
110.000															
120.000	-.0261	.0567	.1059	.0348	-.2311	-.0576	-.0965								
135.000		.4715	.4169	-.1989	-.1418	-.1396									
150.000	-.0400	.0936	.4712	.9627	.0303	-.0469	-.2102								
165.000	-.0569		.4671	.1994	-.0263	-.2517									
180.000	-.0316	.0274	.4642	.5920											

ALPHA(X) = -6.330 BETA(O) = 4.070

SECTION (1): ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0070	.0000	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
154.000															
165.000															
169.000															
174.000															
180.000	1.4080	.6775	.6096	.5796	.9213	.9603	1.0030	.8742							
X/LB	.6630	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.070	.3069	.7542	.3069	.5119	.4466	.0000									
20.000	.3199	.3015	.3967	-.3622											
40.000	.4197	.2699	.3045	-.0707											
55.000	.4308	.2707	.2248	.0697											
70.000	.4768	.2735	.1648	.1529											
90.000	.5044	.3011	.1651	.1791											
120.000	.5294	.3790	.2661	.3419											
140.000															
150.000	.6132	.5120	.4280	.4696											
154.000															
165.000															
169.000															
174.000															
180.000	1.4080	.6775	.6096	.5796	.9213	.9603	1.0030	.8742							
X/LB	.6630	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

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(R01933)

ARC11-716 1A14 01-712-912MS-AT10 CRB. FUSELAGE

ALPHA (3) = -6.330 BETA (7) = 4.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6350	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0627	.1309	.1603	.1142	-.2621	-.3591	-.2995		-.2360	-.2326
40.000	.0141	.0774	.1856	-.2265	-.3093	-.2961	-.2646		-.2493	-.2326
70.000	.0146	-.0306	.0337	.2012	.0169	-.0230	.0240			
90.000	.0107	.0241	.1043	.1410	-.0135	-.0367	-.0068			
105.000		.1661	.0429	-.0753	-.0712	-.0136				
110.000										-.1750
120.000	-.0109	.0999	.0363	-.0960	-.2676	-.0990	-.0797	-.1482		
135.000			.4120	.3792	-.2272	-.2330	-.2519			
150.000	-.0769	.1040	.4453	.6003	-.0057	-.1040	-.2564			
165.000	-.0772		.4519		.1153	-.0751	-.2714			
180.000	-.0687	.0166	.4466	.9221						

ALPHA (3) = -6.340 BETA (8) = 6.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2620	.3010	.3790	.4990	.9760
PHI															
.000	1.3680	.7252	.2713	.2633	.4226	.0000		-.0096		-.0036	-.0616	-.2141	-.2359	-.1759	-.0537
20.000		.2661	.2064	.4093	-.4463			-.1035		-.0379		-.0615	-.2517	-.1748	-.0430
40.000			.3450	.2229	.2976	-.1603		-.1367			-.1054	-.2321	-.2517	-.1748	-.0430
55.000			.3548	.2034	.2093	.0099		-.0229		-.1333					
70.000			.4001	.1953	.1927	.1076		-.0765		-.1144	-.4794	-.3396	-.2359	-.1007	
90.000		.4633	.6232	.2237	.1402	.1417		-.0197		-.2244	-.4714	-.4612	-.2149	-.1109	
120.000		.4906	.3136	.2193	.2904			.1777		-.2399	-.4069	-.6155	-.3673	-.1843	
140.000										-.4004					
150.000			.3564	.4756	.3666	.4456				-.3634	-.4564	-.2312	-.2676	-.2116	
171.000									.3464						
196.000								.6542							
162.000									.4793						
165.000															
169.000															
174.000															
180.000	1.3680	.8368	.6999	.9599	.4974	.9602		.8399							
169.000															
174.000															
180.000	.6380	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

X/LB	.6350	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0291	.1004	.1677	.1667	-.2697	-.3230	-.3135		-.2096	-.2586
40.000	-.0091	.0662	.1623	-.2746	-.4244	-.3995	-.3130		-.2914	-.2930
70.000	.0041	-.0003	.1023	.2496	.0202	-.0174	-.0363			
90.000	-.0037	.0379	.1370	.1729	-.0030	-.0364	-.0484			
105.000			.1814	.1046	-.0610	-.0635	-.0779			
110.000										-.2066



MFC11-716 IA14 ORBITER SYSTEMS+ATIO ORR. FUSELAGE (MR1233)

ALPHAX 3) = -8.200 BETA0 (10) = 10.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.5760
PHI	.000	1.1780	.6264	.1759	.0931	.4474	.0000	-.2433	.0677	-.2576	-.2425	-.3293	-.2300	-.1261	
20.000				.1031	.0918	.4349	-.5401	-.1435	-.0912	-.1304	-.2242	-.3115	-.1981	-.0696	
40.000				.1363	.0742	.3207	-.3046	-.1032	-.0957						
55.000				.1732	.0224	.2149	-.0544	-.0685	-.1078						
70.000				.2319	.0200	.1355	.1027	-.1418	-.1720	-.4962	-.3996	-.2121	-.0969		
90.000			.1996	.2716	.0999	.0069	.1993	-.1101	-.3009	-.5542	-.4645	-.2220	-.1170		
120.000			.3291	.1287	.0327	.2433		.0435	-.3308	-.4650	-.6052	-.4065	-.1840		
140.000			.4161	.3721	.2816	.3416			-.4695	-.4074	-.4861	-.2537	-.2755	-.3187	
151.000								.2197							
156.000								.5749							
162.000									.4242	-.4262	-.3541	-.2743	-.2146	-.2907	
165.000								.7766							
169.000															
174.000										-.4352	-.3944	-.2463	-.1866	-.1665	
180.000	1.2760	.7374	.3754	.4664	.4406	.5097	.6730	.7607							

X/LB .6530 .7300 .7810 .6230 .6620 .9230 .9650 1.0020 1.0210 1.0480

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

PHI	.000	.0872	.0365	.1051	.1341	-.3996	-.3466	-.3339		-.3055	-.2661		-.3265	-.3177
40.000				.1222	-.3511	-.4403	-.4122	-.3166						
70.000				.0337	.2377	-.0407	-.1057	-.1164						
90.000				.0347	1.404	-.0694	-.1101	-.1273						
105.000				.0695	.0567	-.1316	-.1323	-.1439						
110.000								-.2430						
120.000				-.1033	-.3027	-.4329	-.3244	-.3430						
135.000				.0636	.2017	-.4099	-.4627	-.5158						
150.000				.2984	.6171	-.0949	-.2292	-.3368						
165.000				.3219		.0194	-.1725	-.2653						
180.000	-.2554	-.1364	.3037	.4993										

ALPHAX 4) = -4.200 BETA0 (1) = -9.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.5760
PHI	.000	1.3160	.7747	.3691	.2672	.4716	.0000	-.2537	.0754	-.1036	-.2003	-.1094	-.0737	.0261	
20.000				.4645	.2876	.4362	.0325	-.2362	.0345						
40.000				.7903	.4246	.4223	.2810	.0366	-.1262	-.2009	.0653	.0362	.0091	.0361	
55.000				.9001	.6118	.4677	.3666	.2467	.1698						
70.000				.9490	.6603	.5179	.4471	.3500	.2260	-.2069	-.0093	-.0269	-.0266		
90.000			1.1722	.9300	.6999	.5251	.4920	.3773	.2421	-.1347	-.0473	-.0526	-.0299		



(R01833)

ARC11-716 1A14 01-T12-S12E3-A110 CRB. FUSELAGE

ALPHAO (4) = -4.230 BETA0 (2) = -7.990

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
165.000															
169.000															
174.000															
180.000															
X/LB	.6630	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.1822	.2819	.3849	.4434	-.5172	-.3837	-.3504								
40.000	.2980	.3366	.4021	.2364	-.3763	-.4713	-.4300								
70.000	.0067	-.1022	-.1696	.1607	.0693	.0559	.0759								
90.000	.0201	-.0541	-.0894	.1597	.0305	-.0077	.0914								
105.000		.1597	.0953	.0037	-.0428	.0482									
110.000															
120.000	-.0787	-.0985	.2663	.3728	-.0870	.0774	.0419								
135.000			.4130	.3066	.0168	.2107	.1137								
150.000	-.1540	-.0802	.3196	.2396	.2432	.2697	.0282								
165.000	-.1885		.3376		.3832	.2782	-.0618								
180.000	-.1877	.0549	.3480	.3780											

ALPHAO (4) = -4.180 BETA0 (3) = -5.970

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
.000	1.3800	.8188	.3989	.3964	.5432	.0000									
20.000			.4832	.3599	.4891	-.1144									
40.000			.7213	.4124	.4126	.1514									
55.000			.7636	.5176	.4171	.2551									
70.000			.8207	.5263	.4084	.3200									
90.000		1.0270	.8065	.5815	.4021	.3593									
110.000			.7880	.5581	.4680	.4937									
140.000			.6638	.5345	.4678	.5358									
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.3800	.8294	.5882	.4807	.4325	.5192									
X/LB	.6630	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					



TABULATED PRESSURE DATA - 1A14A - VOL. 3

(801833)

ARC11-716 1A14 01+712+312E5+AT10 CEB. FUSELAGE

ALPHAO(4) = -4.180 BETAO (3) = -5.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1750	.2990	.3982	.4070	-.4567	-.3969	-.3456		-.2756	-.2576
20.000	.2273	.3024	.3669	.2076	-.3632	-.4432	-.3954		-.2748	-.2554
40.000	-.0103	-.1076	-.1979	.1766	.0634	.0373	.0384			
60.000	.0021	-.0216	-.0166	1.502	.0136	-.0136	.0667			
80.000		.1764	.0936	-.0166	-.0441	.0230				
100.000										
110.000										
120.000	-.0509	-.0413	.2787	.3134	-.1116	.0526	.0127			
130.000		.4694	.4694	.3448	-.0063	.1556	.0732			
150.000	-.0824	-.0299	.3573	.3345	.1669	.2112	-.0160			
165.000	-.1040		.3618	.3177	.2282	-.1072				
180.000	-.1064	.0595	.3739	.4070						

ALPHAOX(4) = -4.170 BETAOX (4) = -3.950

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
.000	1.4040	.6821	.3789	.3336	.5397	.0000		-.2131	.0066	-.0407	-.1172	-.1321	-.1474	.0169	
20.000	.4508	.4769	.4769	-.1619				-.2619	.1276	-.1327	-.1445	-.0564	-.1297	-.0044	
40.000	.6860	.3719	.3903	.5207				-.0929	.0263						
55.000	.7146	.4369	.3624	.2399				.1393	.0263						
70.000	.7534	.4933	.3574	.2633				.1160	.0713						
90.000	.9489	.7429	.5164	.3444	.3269			.1649	.0404						
120.000	.7839	.5238	.4233	.4649				.4422	-.0004						
140.000	.6631	.5368	.4624	.5338					-.2445						
150.000									.9956						
151.000									.6701						
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.4040	.5894	.3943	.5136	.4653	.3293									

X/LB .6530 .7300 .7810 .8230 .8650 .9230 .9630 1.0020 1.0210 1.0480

PHI	.000	.1502	.2500	.3142	.3402	-.2422	-.3161	-.2669
.000								
20.000	.1810	.2402	.4630	.1303	-.2706	-.3069	-.2649	
40.000	-.0007	-.1043	-.1272	.1707	.0483	.0163	.0304	
60.000	-.0082	-.0304	.0316	.1434	.0037	-.0244	.0301	
80.000								
100.000								
110.000								

-.1233

ARC11-716 1A14 ORBITER FUELS AT110 ORG. FUELS (RB1833)

ALPHA(4) = -4.170 BETA(4) = -3.930

SECTION (1) ORBITER FUELS DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0321	-.0123	.2787	.2617	-.1364	.0637	-.0806	-.0728		
135.000	.4681	.3672	-.0449	.0783	.0268					
150.000	-.0747	.0168	.3683	.1049	.1238	-.0704				
165.000	-.0797	.3664	.2333	.1361	-.1555					
180.000	-.0810	.0686	.3963	.4389						

ALPHA(4) = -4.130 BETA(5) = -2.020

SECTION (1) ORBITER FUELS DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2090	.2320	.3010	.3790	.4990	.5780
PHI															
.000	1.4030	.8399	.3793	.3081	.4669	.0000		-.1446	-.0004	-.0363	-.1366	-.1845	-.2030	-.0039	
20.000	.4368	.3092	.4333	-.2160				-.2682	.0682	-.0976	-.1435	-.0436	-.1463	.0006	
40.000	.6176	.3497	.3226	.0779				-.1237	-.0975	-.0575					
55.000	.6482	.4146	.3171	.1768				.0394	-.0294	-.3688	-.1882	-.1699	-.0536		
70.000	.6889	.4410	.3057	.2224				.0397	.0532	-.3820	-.2886	-.1837	-.0933		
90.000	.6429	.6714	.4684	.3063	.2901			.1288	-.0242	-.2396	-.4622	-.1832	-.1064		
120.000	.6801	.4655	.3914	.4328				.3936	-.0732	-.2877	-.4307	-.2916	-.2006	-.1228	
150.000	.6532	.3286	.4499	.5211				.5983							
171.000								.6396							
196.000															
182.000															
165.000															
149.000															
174.000															
160.000	1.4030	.8663	.6118	.5240	.4721	.5372	1.0470	.8702	-.6213	-.4345	-.2199	-.2102	-.1222		

SECTION (1) ORBITER FUELS DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1100	.1856	.2934	.3310	-.2710	-.2936	-.2553		-.2320	-.2301
40.000	.1326	.2231	.3641	.0435	-.2723	-.2864	-.2699		-.2491	-.2394
70.000	-.0134	-.0903	-.0793	.1376	.0356	.0032	.0097			
90.000	-.0087	-.0393	.0407	.1233	-.0096	-.0293	.0030			
103.000		.1792	.0701	-.0530	-.0449	-.0311				
110.000										-.1433
120.000	-.0229	.0220	.2420	.2037	-.1624	-.0204	-.0553			-.1051
135.000			.4643	.4245	-.0727	.0097	-.0290			
150.000	-.0287	.0390	.4103	.4330	.0733	.0387	-.1238			
165.000	-.0403		.4131	.2195	.0756	-.1951				
180.000	-.0412	.0773	.4184	.4670						



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 OR-712-S12M25-AT10 CR8. FUELSLAGE (R61833)

ALPHAX(4) = -4.000 BETA(6) = -.010

SECTION (1) ORBITER FUELSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PWT															
000	1.4260	.6267	.3796	.3079	.4624	.9000		-.1235		.0069	-.0394	-.1048	-.1720	-.1449	.0216
20,000		.4072	.3068	.4289	-.2071			-.2445		.0233					
40,000		.3548	.3236	.3325	.0201			-.1445		-.0773	-.0703	-.0600	-.0649	-.1603	.0371
55,000		.3758	.3602	.2811	.1355			-.0944		-.0746					
70,000		.0085	.3773	.2980	.1866			-.0005		.0187	-.4017	-.2283	-.1940	-.0976	
90,000		.7642	.9877	.4115	.2566	.2429		.0876		-.1029	-.3442	-.3744	-.1934	-.0987	
120,000		.6366	.4364	.3532	.4010			.3478		-.0823	-.3233	-.5008	-.972	-.1165	
140,000										-.1938					
160,000		.6320	.5187	.4297	.5025				.3133	-.3303	-.4499	-.3174	-.2031	-.1205	
174,000								.6022							
196,000									.3945	-.3069	-.3928	-.2425	-.2046	-.1215	
183,000								.9127							
190,000															
174,000															
190,000															
W/LB	.6330	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PWT	.000	.1191	.1736	.2110	.1547	-.2970	-.2875	-.2693
40,000		.1026	.1741	.2030	-.0144	.2573	-.2790	-.2590
70,000		-.0019	-.0639	-.0452	.1536	.0273	-.0107	-.0179
90,000		.0114	-.0277	.0685	.1193	-.0309	-.0442	-.0246
107,000			.1766	.0303	-.0669	-.0394	-.0509	
110,000								-.1611
120,000		-.0131	.0398	.1024	.1119	-.2025	-.0546	-.0891
135,000			.4761	.4228	-.1196	-.0725	-.0896	-.1332
150,000		-.0228	.0876	.4357	.5021	-.0384	-.0744	-.1797
165,000		-.0531	.4339	.4339	.1743	.0039	-.2306	
190,000		-.0541	.0833	.4317	.3066			

ALPHAX(4) = -4.210 BETA(7) = 2.110

SECTION (1) ORBITER FUELSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PWT															
000	1.4220	.6134	.3448	.2932	.4136	.9000		-.1118		.0104	-.0497	-.1348	-.1760	-.1677	-.0041
20,000		.3733	.2912	.3716	-.3195			-.2188		-.0207					
40,000		.4964	.2874	.2835	-.0200			-.1301		-.0264	-.0424	-.1196	-.1336	-.1579	.0235
55,000		.3073	.3022	.2266	.1023			-.1394		-.1109					
70,000		.3440	.3139	.2106	.1623			.0292		-.0361	-.4234	-.2684	-.2310	-.1079	
90,000		.6876	.3427	.3473	.2063	.2069		.0361		-.1448	-.3710	-.4113	-.2193	-.1034	

ARC11-716 1A14 CR-TIE-SIZES-AT10 CRG. FURDLAGE (R01233)

ALPHAO1 4) = -4.210 BETA0 (7) = 2.110

SECTION (1) CRIBITER FURDLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
120.000			.3600	.3602	.3043	.3625		.3010		-.1340	-.3629	-.3603	-.2531	-.1294	
140.000										-.2841					
150.000			.6034	.6084	.6070	.4755				-.3626	-.6222	-.3100	-.2470	-.1275	
151.000								.7572							
156.000									.5532						
165.000										-.3154	-.4414	-.2270	-.2353	-.1295	
169.000															
174.000			1.4220	.6400	.6190	.5264	.6667	.5345	1.0120						
190.000			.6630	.7500	.7610	.6230	.6620	.9230	.9430	1.0210	1.0490				

ALPHAO1 4) = -4.200 BETA0 (8) = 4.080

SECTION (1) CRIBITER FURDLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
120.000			.1110	.1675	.1930	.1321	-.2308	-.2785	-.2653						
140.000			.0730	.1271	.1043	-.1324	-.2796	-.2753	-.2761						
150.000			.0091	-.0769	-.0230	.1470	.0126	-.0263	-.0329						
151.000			.0134	-.0193	.0664	.1117	-.0407	-.0820	-.0524						
156.000					.1600	.0335	-.0680	-.0731	-.0719						
165.000															
169.000															
174.000			-.0089	.0762	.1094	.0540	-.2457	-.0874	-.1236						
190.000			.0274	.1171	.4361	.9233	.0104	-.0684	-.2292						
191.000															
196.000			-.0685	.0911	.4263	.1390	-.0460	-.2591							

ALPHAO1 4) = -4.200 BETA0 (9) = 4.080

SECTION (1) CRIBITER FURDLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
120.000			1.4840	.7799	.3006	.2761	.4206	.0000							
140.000					.3096	.2679	.3716	-.3790							
150.000			.4125	.2391	.2900	-.0901									
151.000					.4217	.2394	.2043	.0467							
156.000					.4826	.2407	.1713	.1110							
165.000			.5570		.4845	.2766	.1613	.1506							
169.000					.9264	.3452	.2518	.3106							
174.000					.9634	.4613	.3645	.4434							
190.000															
191.000															
196.000															
197.000															

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ARC11-716 1A14 CH-T12-S12E2-A110 CRG. FUSelage (MC1833)

ALPHAX (1) = -4.200 BETA (1) = 4.090

SECTION (1) ORBITER FUSelage DEPOSIT VARIABLE CP

V/L	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1870	.1790	.2030	.2300	.3010	.3790	.4990	.5790
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PHI															
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166.000															
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169.000															
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174.000															
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180.000	1.4040	.8174	.6103	.3201	.4944	.9239	.9070	.8701							
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V/L	.6830	.7300	.7810	.8230	.8480	.8230	.9430	1.0020	1.0210	1.0490					
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PHI															
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.000	.0814	.1330	.1968	.1302	-.2484	-.3373	-.2929								
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40.000	.0400	.1016	.1606	-.2015	-.3042	-.2990	-.2902								
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70.000	.0000	-.0739	-.0170	.1719	-.0075	-.0499	-.0347								
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90.000	.0140	-.0115	.0848	.1719	-.0472	-.0792	-.0629								
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109.000		.1493	.0197	-.1023	-.1047	-.0912									
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110.000															
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120.000	-.0023	.0990	.0432	-.0467	-.2942	-.1308	-.1617								
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139.000		.3799	.3604	-.2245	-.2296	-.2547									
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150.000	-.0673	.1266	.4074	.9327	-.0212	-.1151	-.2756								
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169.000	-.0795	.4082		.0977	-.0917	-.2733									
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190.000	-.0911	.0915	.4033	.4711											
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ALPHAX (2) = -4.210 BETA (2) = 6.090

SECTION (1) ORBITER FUSelage DEPOSIT VARIABLE CP

V/L	.0820	.0090	.0230	.0470	.0700	.1120	.1990	.1870	.1790	.2030	.2300	.3010	.3790	.4990	.5790
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PHI															
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.000	1.3690	.7449	.2540	.2218	.4019	.0000									
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20.000		.2472	.2235	.3789	-.4392										
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40.000		.3208	.1808	.2908	-.1084										
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99.000		.3335	.1681	.1664	-.0194										
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70.000		.3795	.1545	.1561	-.0826										
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90.000	.4893	.4109	.1916	.1145	.1009										
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120.000		.4597	.2739	.1803	.2636										
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140.000		.3030	.4198	.3249	.4040										
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191.000															
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194.000															
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166.000															
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169.000															
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174.000	1.3798	.7908	.9804	.4873	.4238	.9080	.9474	.8354							
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180.000	.6888	.7300	.7810	.8230	.8480	.8230	.9430	.9630	1.0020	1.0210	1.0490				
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(081633)

ARC11-716 1A14 01-712-912E3-AT10 CRG. PUSBLAGE

ALPHA(X) = -4.210 BETA(O) = 6.060

SECTION (11) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7500	.7910	.0230	.0400	.9230	.9430	1.0000	1.0210	1.0400
PWT										
.000	.0240	.1231	.1900	.2001	-.3048	-.3397	-.3041		-.2318	-.2417
40.000	.0021	.0916	.1770	-.2430	-.3198	-.3105	-.3028		-.2712	-.2307
70.000	-.0104	-.0408	.0485	-.1995	-.0950	-.0950	-.0542			
90.000	.0001	.0214	.1004	.1419	-.0348	-.0792	-.0824			
104.000		.1602	.0905	-.0961	-.1149	-.1170				
110.000						-.2167				
120.000	-.0115	.1204	.0319	-.0804	-.2431	-.1327	-.1608			
135.000		.2672	.3040	-.2431	-.2412	-.2990				
150.000	-.0708	-.0399	.3545	-.0310	-.1359	-.2872				
165.000	-.1016	.3026	.0795	-.1026	-.2870					
180.000	-.1104	.0229	.3799	.4630						

ALPHA(X) = -4.800 BETA(O) = 6.060

SECTION (11) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0410	.0700	.1120	.1590	.1670	.1760	.2050	.2350	.3010	.3790	.4990	.5760
PWT															
.000	1.3830	.6040	.2003	.1237	.4009	.0000		-.1572	.0636	-.2170	-.1370	-.2277	-.2161	-.0699	
40.000		.1601	.1390	.3025	-.4924			-.1485	-.0837	-.1380	-.2326	-.2024	-.1793	-.0279	
70.000		.2837	.1192	.2714	-.2438			-.1391	-.0793	-.1380	-.2326	-.2024	-.1793	-.0279	
90.000		.2400	.0723	.1013	-.0631			-.0775	-.1399	-.1000	-.4093	-.3716	-.2746	-.1010	
100.000		.2990	.0728	.0912	.0475			-.1319	-.2967	-.5397	-.4700	-.2310	-.1042		
120.000		.2332	.1179	.0290	.1079			-.0755	-.2900	-.4397	-.3399	-.3600	-.1778		
140.000		.3631	.2121	.0904	.2394			.1098	-.4467	-.5066	-.2704	-.3110	-.3110		
160.000		.4471	.3793	.2713	.3636			.2781	-.4223	-.5066	-.2704	-.3110	-.3110		
174.000								.6030							
194.000									.4337						
162.000										-.3091	-.4333	-.2704	-.2323	-.2791	
169.000															
189.000															
174.000															
190.000															

W/LB	.0000	.7500	.7910	.0230	.0400	.9230	.9430	1.0000	1.0210	1.0400
PWT										
.000	.0230	.1107	.1790	.1660	-.3777	-.3380	-.3165		-.2902	-.2393
40.000	.0227	.0955	.1910	-.2075	-.4237	-.4035	-.3030		-.2976	-.3000
70.000	.0096	-.0405	.0025	.2100	-.0170	-.0744	-.0546			
90.000	.0133	-.0093	.0474	.1862	-.0491	-.1002	-.1037			
109.000		.1233	.0814	-.1063	-.1141	-.1333				
110.000						-.2399				



D

(RB1833)

ARC11-716 1A14 01+112+S12M5+AT10 CR8. FUSELAGE

ALPHA(5) = -2.870 BETA(1) = -10.040

SECTION (1) CR8-TER FUSELAGE DEPENDENT VARIABLE CP

K/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
.000	1.3120	.7920	.3724	.2709	.4803	.0000		-.2616	.0613	-.0869	-.2022	-.0901	-.0661	-.0549	
20.000			.4906	.3105	.4220	.0017		-.2714	.0724	-.1810	.0975	.0674	.0132	.0470	
40.000			.8012	.4160	.3846	.2430		-.0177	-.1997						
55.000			.9048	.6055	.4661	.3993		.2313	.2328	-.2012	.0205	-.0200	-.0484		
70.000			.9475	.6609	.4919	.4171		.3140	.2441	-.1342	-.0434	-.0527	-.0462		
90.000	1.1640		.9191	.6804	.4940	.4646		.3652	.2485	-.0795	-.3271	-.1684	-.1474		
120.000			.8189	.5879	.4951	.5289		.2596	.1641	-.4475	-.3563	-.1899	-.1801		
140.000			.6240	.4766	.4181	.5170		.7126							
150.000								.9635							
156.000								.7926							
162.000									-.3208	-.4071	-.3792	-.2283	-.2034		
169.000								.9511							
174.000						1.0110		.6889							
180.000	1.3120	.8001	.4624	.3067	.3635	.4990			-.4456	-.4535	-.3109	-.2490	-.2492		
K/LB	.6530	.7300	.7610	.8230	.8620	.9250	.9630	1.0020	1.0210	1.0480					

ALPHA(5) = -2.870 BETA(2) = -8.030

SECTION (1) CR8-TER FUSELAGE DEPENDENT VARIABLE CP

K/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
.000	1.3330	.8114	.3967	.3227	.5104	.0000		-.2797	.1017	-.1323	-.2162	-.0963	-.0335	.0375	
20.000			.4912	.3245	.4558	-.6632		-.3049	.0943						
40.000			.7677	.4093	.3966	.1712		-.0789	-.1487	-.1563	.0713	-.0265	-.0147	.0377	
55.000			.8503	.5600	.4298	.2747		.1646	-.1662						
70.000			.8842	.6041	.4321	.3400		.2701	.1685	-.2313	-.0498	-.0589	-.0700		
90.000	1.0970	.8995	.6232	.4561	.3934			.3114	.1648	-.1666	-.0634	-.0659	-.0742		

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 IA14 01+112+S12N3+AT10 CR. FUSELAGE (881833)

ALPHA(5) = -2.870 BETA(2) = -6.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
120.000			.7825	.5555	.4607	.4915		.5568		.1794	-.1271	-.3614	-.1785	-.1356	
140.000										.1380					
150.000			.6226	.4836	.4098	.5139				.0786	-.4587	-.3556	-.1968	-.1677	
151.000								.9322							
156.000															
162.000															
165.000								.6936							
169.000															
174.000															
180.000	1.5356	.8048	.4962	.4222	.3904	.4782	1.0180	.7405		-.4415	-.3804	-.3106	-.2318	-.2907	
X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.2075	.2974	.3930	.4486	-.5069	-.3791	-.3515								
40.000	.2645	.3664	.6156	.2556	-.3701	-.4775	-.4295								
70.000	.0064	-.1216	-.1699	.1028	.0453	.0291	.0368								
90.000	.0168	-.0725	-.1423	.1316	.0104	-.0368	.0481								
105.000		.1155	.0785	-.0158	-.0729	.0001									
110.000															
120.000	-.1108	-.1398	.2345	.3792	-.1103	.0402	.0204								
135.000		.3770	.2823	-.0231	.1756	.0976									
150.000	-.1714	-.0742	.3028	.2268	.2033	.2463	.0120								
165.000	-.1724		.3150		.3542	.2513	-.0662								
180.000	-.1474	.0692	.3171	.3540											

ALPHA(5) = -2.870 BETA(3) = -5.960

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3600	.8279	.3841	.3288	.3421	.0000									
20.000			.4760	.3596	.4784	-.1178									
40.000			.7221	.3871	.3979	.1390									
55.000			.7839	.5058	.3976	.2351									
70.000			.8101	.5455	.3895	.2949									
90.000	1.0180		.7960	.5673	.3848	.3336									
120.000			.7376	.5226	.4287	.4597									
140.000															
150.000			.6270	.4924	.4182	.5015									
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000															

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TABULATED PRESSURE DATA - 1A14A - VOL. 3

(RB1833)

ARC11-716 1A14 01+712+S12M25+AT10 ORB. FUSELAGE

ALPHA(3) = -2.870 BETA(3) = -5.980

SECTION (3) CUBIC FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2090	.2320	.3010	.3790	.4990	.5780
PHI															
165.000															
169.000															
174.000															
180.000															
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.1914	.2724	.3689	.4212	-.4643	-.3692	-.3449								
40.000	.2892	.3317	.3626	.2232	-.3990	-.4436	-.3921								
70.000	-.0067	-.1277	-.1838	.1225	.0368	.0072	.0216								
90.000	.0036	-.0692	-.0787	.1199	-.0081	-.0466	.0281								
105.000		.1458	.0748	-.0376	-.0603	-.0232									
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHA(5) = -2.880 BETA(4) = -3.920

SECTION (5) CUBIC FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2090	.2320	.3010	.3790	.4990	.5780
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
170.000															
191.000															
196.000															
182.000															
165.000															
169.000															
174.000															
180.000															
X/LB	.6860	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	1.4090	.8334	.3654	.3019	.5290	.0000									
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
170.000															
191.000															
196.000															
182.000															
165.000															
169.000															
174.000															
180.000															



ARC11-716 IA14 ORBITER-FUSELAGE

(RE1833)

ALPHA(5) = -2.860 BETA(5) = -2.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0192	.0062	.2395	.2086	-.1790	-.0442	-.0747	-.1231		
135.000		.4175	.4062	-.0660	-.0771	-.0474				
150.000	-.0537	.0958	.3779	.4175	.0616	.0413	-.1422			
165.000	-.0610		.3631	.2030	.0295	-.2011				
180.000	-.0605	.1086	.3943	.4601						

ALPHA(6) = -2.850 BETA(6) = .080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.9760
PHI															
20.000	1.4300	.6404	.3565	.2846	.4261	.0000		-.1920		-.0214	-.0286	-.0657	-.1369	-.1134	.0316
40.000		.4028	.2833	.3911	-.2653			-.2606		-.0097					
55.000		.5599	.3053	.2997	.0117			-.1568		-.1181	-.0289	-.0660	-.0675	-.1344	.0454
70.000			.7355	.3404	.2268	.1139		-.0706		-.1008					
90.000		.7542		.6030	.3695	.2400	.1675	-.0116		-.0030	-.4103	-.2209	-.2008	-.1111	
120.000				.3814	.3664	.2308	.2302	.0604		-.1045	-.3362	-.3736	-.2006	-.1113	
140.000				.6199	.4072	.3192	.3711	.3432		-.0696	-.3399	-.5005	-.2008	-.1187	
150.000				.5996	.4654	.3906	.4686			-.3430	-.4720	-.3392	-.2204	-.1243	
171.000								.7947	.5030						
196.000															
182.000															
165.000															
189.000															
174.000															
160.000	1.4300	.6224	.3814	.4919	.4301	.3075		.6779		-.3263	-.4160	-.2663	-.2859	-.1240	
180.000	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
40.000	.1296	.1629	.2136	.1807	-.2534	-.2609	-.2660			-.2440	-.2519				
60.000	.1136	.1629	.3025	-.0133	-.2547	-.2772	-.2333			-.2376	-.2296				
70.000	-.0091	-.1059	-.0754	.1261	.0043	-.0340	-.0412								
90.000	.0080	-.0468	.0476	.0873	-.0417	-.0630	-.0483								
105.000			.1536	.0286	-.0877	-.0640	-.0771								
110.000								-.1709							
120.000	-.0031	.0264	.1616	.1262	-.2123	-.0747	-.1075	-.1494							
135.000			.4441	.4148	-.1268	-.0789	-.1098								
150.000	-.0503	.0262	.4129	.4695	.0223	-.0268	-.1927								
165.000	-.0379		.4116		.1991	-.0063	-.2381								
180.000	-.0569	.1037	.4095	.4705											



ARC11-716 1A14 C4+T12+SIEN2+AT10 CRB. FUSELAGE (RB1833)

ALPHAO (5) = -2.830 BETAO (7) = 2.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.4210	.6186	.3255	.2701	.3640	.0000	-1.464	-0.104	-0.0373	-0.1217	-1.997	-1.171	.0067	
20.000		.3545	.2691	.3484	-3143			-2458							
40.000		.4853	.2720	.2644	-0276			-1570							
55.000		.4940	.2864	.2127	.0776			-1634							
70.000		.3291	.3007	.1972	.1246			-0435							
90.000	.6496	.5136	.3308	.1905	.1826			.0457							
120.000		.5625	.3755	.2745	.339			.2957							
140.000															
150.000		.5705	.4630	.3696	.4402										
156.000								.4526							
162.000								.7905							
165.000								.5409							
169.000								.8747							
174.000															
180.000	1.4210	.8062	.5816	.4944	.4261	.4961	1.0000								
	.6690	.7500	.7810	.6230	.6820	.9230	.9630	1.0020	1.0480						
X/LB															
PHI	.000	.1213	.1790	.2041	.1337	-2499	-2863	-2668							
40.000		.0995	.1409	.1929	-1269	-2757	-2804	-2750							
70.000		-.0054	-.0862	-.0807	.1200	-.0062	-.0497	-.0609							
90.000		.0117	-.0390	.0419	.0611	-.0566	-.0632	-.0732							
105.000			.1451	.0104	-.1030	-.1006	-.0936								
110.000															
120.000	.0043	.0680	.1070	.0345	-.2575	-.1125	-.1405								
135.000			.4066	.4015	-.1775	-.1510	-.1844								
150.000	-.0509	.1281	.4045	.4868	-.0055	-.0836	-.2396								
165.000	-.0696		.4015												
180.000	-.0665	.1063	.3975	.4693	.1203	-.0633	-.2614								

ALPHAO (5) = -2.770 BETAO (8) = 4.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.4800	.7502	.2933	.2466	.3916	.0000	-1.404	-0.096	-0.0550	-0.1362	-1.964	-1.451	-.0221	
20.000		.3049	.2421	.3415	-.3736			-2127							
40.000		.4040	.2172	.2396	-.0975			-1717							
55.000		.4081	.2225	.1874	.0225			-1832							
70.000		.4465	.2219	.1390	.0819			-0741							
90.000	.5345	.4623	.2541	.1450	.1310			.0093							

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(881233)

ARC11-716 1A14 ORBITER FUSELAGE

ALPHA(5) = -2.770 BETA(6) = 4.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0250	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2520	.3010	.3790	.4990	.5760
PHI														
120.000		.5065	.5181	.2293	.2851		.2344		-.1965	-.4069	-.6094	-.2966	-.1333	
140.000									-.3901					
150.000		.5335	.4277	.3226	.4091		.3919		-.3977	-.4566	-.2696	-.3015	-.1486	
171.000							.6946							
196.000							.4975							
182.000							.6450							
165.000														
169.000														
174.000						.9756								
180.000	1.4000	.7813	.5727	.4619	.4664		.8560		-.4511	-.6087	-.2634	-.2336	-.1605	
X/LB	.6530	.7300	.7810	.6230	.9230	.9630	1.0210	1.0480						

PHI														
104.000	.1048	.1665	.2100	.1901	-.2296	-.2990	-.2673		-.2629	-.2323				
40.000	.0544	.1170	.1930	-.2069	-.3688	-.3614	-.2729		-.2378	-.2631				
70.000	-.0126	-.1027	-.0491	.1236	-.0232	-.0724	-.0760							
90.000	.0070	-.0306	.0353	.0742	-.0692	-.0975	-.1036							
105.000			.1345	.0012	-.1228	-.1274	-.1136							
110.000							-.1971							
120.000	.0022	.0637	.0914	-.0333	-.3044	-.1334	-.1772							
135.000			.3492	.3907	-.2316	-.2327	-.2642							
150.000	-.0979	.1362	.3746	.4865	-.0341	-.1327	-.2791							
165.000	-.0736		.3763	.0649	-.1015	-.2434								
180.000	-.0874	.0671	.3750	.4423										

ALPHA(9) = -2.790 BETA(9) = 6.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
120.000	1.3660	.7548	.2430	.1873	.3756	.0000		-.1132	.0033	-.0604	-.2366	-.2080	-.1542	-.0377	
20.000			.2346	.1995	.3540	-.4336		-.1757	-.0717	-.0642	-.0967	-.2236	-.2772	-.1015	-.0203
40.000			.3173	.1654	.2481	-.1706		-.1687	-.1780						
55.000			.3223	.1346	.1652	-.0421		-.1414	-.1532	-.4814	-.3427	-.2769	-.1007		
70.000			.3672	.1320	.1220	.0363		-.1064	-.2237	-.5141	-.4632	-.2467	-.0964		
90.000	.4049		.3951	.1757	.0933	.0781		-.0319	-.2426	-.4421	-.6593	-.3416	-.1497		
120.000			.4347	.2486	.1491	.2419		.1737	-.4081						
140.000			.4756	.3637	.2794	.3717			-.4209	-.4942	-.2952	-.3162	-.2022		
150.000								.3855							
171.000															
196.000								.6396							
182.000															



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(M81833)

ARC11-716 1A14 OR-TIEN-SIENS-RATIO CRG. FUSELAGE

ALPHAO(9) = -2.750 BETA0 (10) = 0.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.6530	.7300	.7610	.6230	.3620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0376	.1239	.1848	.2004	-.3636	-.3317	-.3173		-.2647	-.2499
20.000	.0399	.1001	.1614	.2620	-.4286	-.4049	-.2376		-.2945	-.2372
40.000	-.0092	-.1063	-.0312	.1364	-.0290	-.0696	-.1121			
60.000	.0101	-.0229	.0225	.0804	-.0786	-.1223	-.1420			
80.000		.1003	.0167	-.1185	-.1340	-.1625				
100.000										-.2446
110.000	.0009	.1014	.0321	-.1290	-.2626	-.1963	-.2432			-.2632
120.000		.1433	.3408	-.3370	-.3772	-.4174				
130.000	-.0233	.1566	.2751	.4920	-.0760	-.2123	-.3367			
140.000	-.0697		.2993		.0244	-.1950	-.2648			
160.000	-.1644	.0713	.3088	.3612						

ALPHAO(9) = -2.770 BETA0 (11) = 10.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2560	.6368	.1619	-.0426	.4374	.0000		-.2223	.0775	-.2655	-.2376	-.3020	-.2021	-.0972	
20.000		.0614	.0101	.4075	-.3374			-.2008	-.0664	-.1159	-.1396	-.2497	-.2611	-.1910	-.0426
40.000		.0836	-.0039	.2696	-.3225			-.1703		-.1444					
60.000		.1309	-.0199	.1361	-.1267			-.1127		-.1964	-.3060	-.3674	-.2493	-.0631	
80.000		.1926	-.0131	.0163	-.0097			-.1647		-.3028	-.5757	-.4751	-.2352	-.0940	
90.000	.1627	.2443	.0296	-.0614	.0436			-.1151		-.3328	-.4932	-.6439	-.3633	-.1904	
120.000		.2832	.0935	.0104	.0917			.0443		-.4602					
140.000		.3322	.2913	.1930	.2454				.1962	-.4476	-.5354	-.3174	-.3214	-.3511	
150.000								.5997							
156.000								.3971		-.4894	-.4076	-.3376	-.2631	-.3002	
162.000								.7482							
169.000															
174.000															
180.000	1.2360	.6335	.4719	.3030	.3231	.3979									
186.000		.6530	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480				
PHI															
.000	-.0107	.0927	.1670	.1725	-.4057	-.3325	-.3179		-.2650	-.2489					
20.000	.0221	.0924	.1370	-.3191	-.4236	-.4060	-.3061		-.3076	-.3031					
40.000	-.0398	-.1166	-.0329	.1293	-.0466	-.1269	-.1435								
60.000	-.0313	-.0630	-.0146	.0460	-.1217	-.1531	-.1841								
80.000		.0679	.0035	-.1631	-.1724	-.2048									
100.000															
110.000															-.2452



(R01033)

ARC11-716 1A14 04-712-512M3-AT10 ORB. FUSELAGE

ALPHA (1) = -.750 BETA (2) = -6.420

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/L	.0000	.0040	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2360	.3010	.3790	.4990	.5780
PHI															
.000	1.3300	.8351	.3655	.2716	.4647	.0000		-.3003		-.0756	-.0779	-.1637	-.0630	-.0100	.1156
20.000			.5029	.3063	.4261	-.0532		-.3355		-.2134					
40.000			.6543	.4033	.3795	.1717		-.1110		-.1126	.1234	.0973	.0752	-.0041	.0770
55.000			.6089	.5661	.4290	.2716		.1545		.0901					
70.000			.6946	.6073	.4273	.3272		.2448		.1154	-.2050	.0123	-.0323	-.0492	
90.000	1.1000		.6559	.6142	.4183	.3694		.2967		.1966	-.1277	-.0664	-.0411	-.0897	
120.000			.7568	.5193	.4090	.4366		.5276		.1723	-.1464	-.3375	-.2256	-.1910	
140.000										.1352					
150.000			.5717	.4197	.3479	.4500				.0796	-.4866	-.3954	-.2248	-.2056	
151.000									.6699						
154.000															
162.000															
166.000															
169.000															
174.000															
190.000	1.3300	.7379	.4256	.3531	.3126	.4124	1.0190								
W/L	.6530	.7500	.7610	.6230	.6620	.9230	.9430	1.0020	1.0210	1.0460					
PHI															
.000	.2361	.3268	.4106	.4484	-.5200	-.3631	-.3401								
40.000	.2563	.4190	.6462	.3005	-.3720	-.5005	-.4461								
70.000	-.0037	-.1545	-.2207	-.0080	.0136	-.0069	-.0066								
90.000	.0108	-.1009	-.1965	.0904	-.0134	-.0701	-.0322								
105.000			.0316	.0599	-.0756	-.1096	-.0700								
110.000															
120.000	-.1725	-.2219	.1609	.3645	-.1354	-.0425	-.0093								
135.000			.2960	.2134	-.2017	.1360	-.0766								
150.000	-.2229	-.0556	.2429	.1053	.1747	.2299	-.0086								
165.000	-.1448		.2495		.3146	.2362	-.0613								
190.000	-.0600	.0646	.2517	.2644											

ALPHA (3) = -.750 BETA (3) = -6.290

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/L	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2360	.3010	.3790	.4990	.5780
PHI															
.000	1.3400	.8313	.3910	.2975	.5164	.0000		-.2695		-.1977	-.0341	-.0474	-.0362	-.0460	.0912
20.000			.4936	.2973	.4562	-.1024		-.3390		-.2433					
40.000			.6173	.3697	.3461	.1425		-.1226		-.1434	.1055	.0710	.0366	-.0068	.0460
55.000			.6094	.5164	.3933	.2319		-.1394		-.0173					
70.000			.6232	.5209	.3604	.2630		.2260		.0650	-.2919	-.0400	-.0772	-.1003	
90.000	1.0190		.7422	.5401	.3465	.3293		.2666		.1056	-.2567	-.1424	-.1045	-.1032	



0810333

ARC11-716 IAI14 CH-TIER-SIEMENS-RATIO CRB. PURCHASE

ALPHA X 0 = -.716 BETA 1 (4) = -4.140

SECTION (1) CRIBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1990	.1670	.1790	.2050	.2950	.3010	.3790	.4990	.3760
P41															
169.000															
169.000															
174.000															
160.000	1.4000	.7940	.4697	.4131	.3964	.4392	1.0000	.7970							
W/LB	.6000	.7300	.7910	.8230	.8400	.8230	.9400	1.0000	1.0000	1.0000	1.0400				
P41															
.000	.8080	.2741	.3549	.3600	-.4007	-.3791	-.3309								
40.000	.2320	.3442	.2646	-.3439	-.4204	-.3714									
70.000	-.0396	-.1576	-.2107	.0549	-.0075	-.0477	-.0396								
90.000	-.0809	-.0907	-.1077	.0759	-.0453	-.0611	-.0794								
109.000		.1187	.1187	.0374	-.0924	-.1313	-.1029								
110.000															
120.000	-.0947	-.0755	.2532	.2909	-.1777	-.0883	-.0740								
135.000		.4406	.3032	-.0946	.0319	-.0101									
150.000	-.0748	.0136	.3270	.2915	.0829	.0876	-.0941								
166.000	-.0737	.3233		.2134	.1052	-.1723									
160.000	-.0987	.1141	.3146	.3487											

-.3461 -.4355 -.3903 -.2922 -.1892
-.4538 -.4412 -.2970 -.2649 -.1961

.9003
.7970
-.2669 -.2427
-.2576 -.2347
-.1496
-.1233

ALPHA X 0 = -.700 BETA 1 (5) = -2.000

SECTION (1) CRIBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1990	.1670	.1790	.2050	.2950	.3010	.3790	.4990	.3760
P41															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000	1.4270	.8287	.3447	.2493	.4791	.0000									
140.000															
150.000															
151.000															
154.000															
162.000															
169.000															
174.000															
160.000	1.4270	.7930	.9196	.4905	.3689	.4921	1.0000								
W/LB	.6000	.7200	.7910	.8230	.8400	.8230	.9400	1.0000	1.0000	1.0400					
P41															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
154.000															
162.000															
169.000															
174.000															
160.000															

-.1991 -.0221 -.0415 -.1414 -.0946 .0437
-.1643
-.1100 .0628 -.0187 -.0376 -.1142 .0342
-.0997
-.0095 -.3643 -.1882 -.1396 -.1134
-.0174 -.3229 -.3493 -.1714 -.1030
-.0174 -.2937 -.4893 -.1931 -.1372
-.0731
-.3033 -.4922 -.3549 -.2493 -.1497

-.1803
-.2422
-.1392
-.0122
-.0417
-.1310
-.3995
.9000
.2927
.6045
-.3394 -.4169 -.3417 -.2486 -.1990
.6996
1.0000
.8369
-.4784 -.4715 -.2720 -.2988 -.1438



(R81833)

MRC11-716 1A14 0A+T12+S12G2+T10 CR8. FUSELAGE

ALPHAO (6) = -.700 BETA0 (6) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI									
125.000	-.0049	.0644	.1676	.1901	-.2191	-.1083	-.1349	-.1799	
135.000		.2543	.3960	-.1203	-.0899	-.1376			
150.000	-.0355	.1377	.3241	.3966	.0179	-.0393	-.1972		
165.000	-.0409	.3404		.1362	-.0215	-.2323			
180.000	-.0422	.1396	.3437	.4251					

ALPHAO (6) = -.700 BETA0 (7) = 2.160

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2920	.3010	.3790	.4990	.5760
PHI														
.000	1.4130	.6234	.3046	.2336	.3471	.0000		-.1631	-.0796	-.0413	-.0551	-.1140	-.0899	.0319
20.000		.3375	.2359	.3106	-.3117			-.2684	-.1435					
40.000		.5246	.2459	.2337	-.0363			-.1743	-.1924	.0032	-.1107	-.1905	-.3680	.0546
55.000		.4817	.2655	.1962	.0429			-.0888	-.1992					
70.000		.5110	.2744	.1755	.0913			-.0425	-.0686	-.4333	-.2937	-.2370	-.1285	
90.000		.6230	.4872	.2932	.1361			.0424	-.1319	-.4100	-.4564	-.2365	-.1197	
120.000		.5353	.3394	.2373	.2654			.2906	-.1435	-.3898	-.6010	-.2612	-.1216	
140.000		.5253	.4155	.3110	.3682				-.3971	-.5022	-.3779	-.2922	-.1234	
151.000								.4396						
156.000								.7411						
162.000								.9205						
165.000									-.3583	-.4698	-.2698	-.2909	-.1237	
169.000								.8577						
174.000														
180.000	1.4130	.7387	.5301	.4404	.3636	.4355		.8492	-.9069	-.4791	-.2767	-.2759	-.1347	

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI									
.000	.1467	.2068	.2210	.1299	-.2355	-.2620	-.2618		
40.000	-.1116	.1665	.2110	-.1106	-.2571	-.2692	-.2647	-.2365	-.2356
70.000	-.0186	-.1390	-.1084	.0839	-.0346	-.0632	-.0936	-.2349	-.2110
90.000	.0294	-.0630	.0246	.0343	-.0756	-.1133	-.1067		
105.000		.1195	-.0039	-.1200	-.1280	-.1361			
110.000									
120.000	.0184	.0736	.1416	.0242	-.2604	-.1419	-.1668	-.2026	
135.000		.3845	.3671	-.1907	-.1585	-.2013			
150.000	-.0230	.1436	.6368	.4268	-.0286	-.1036	-.2379		
165.000	-.0395	.3615		.0931	-.0661	-.2566			
180.000	-.0484	.1445	.3336	.4101					



ARC11-716 1A14 01-712-SIZES*AT10 CRE. FUSELAGE (R61833)

ALPHAO (8) = -.710 BETAO (8) = 4.270

SECTION (1) CARRIER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2920	.3010	.3790	.4990	.5760
PHI	.0000	1.3660	.7938	.2761	.2194	.3530	.0000	-.1366	-.0193	-.0999	-.1598	-.1696	-.0909	-.0909	.0118
20.000			.2877	.2534	.3047	-.3773		-.2924	-.1176						
40.000			.4478	.2969	.2317	-.1054		-.1960	-.1503	-.0908	-.1711	-.2136	-.0600	-.0600	.0339
55.000			.3965	.2021	.1706	-.0078		-.1732	-.1918						
70.000			.4317	.2013	.1410	.0418		-.0952	-.1022	-.4819	-.3332	-.2655	-.1130	-.1130	
90.000			.5073	.4145	.2344	.1244	-.0873	-.0081	-.1892	-.4962	-.4871	-.2322	-.1005	-.1005	
120.000			.4793	.2867	.1928	.2414		.2320	-.2058	-.4318	-.6318	-.3409	-.1159	-.1159	
140.000									-.3692						
150.000			.4912	.3874	.2694	.3517			-.4209	-.4938	-.3385	-.3402	-.1444	-.1444	
151.000								.3785							
156.000								.6823							
162.000								.4747							
165.000									-.5663	-.5106	-.2970	-.3003	-.1708	-.1708	
169.000															
174.000								.9566							
180.000			.7336	.5257	.4312	.3534	.4233	.8333	-.4837	-.4436	-.3191	-.2786	-.1819	-.1819	

SECTION (1) CARRIER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2920	.3010	.3790	.4990	.5760
PHI	.0000	.1298	.1892	.2276	.1724	-.2230	-.3225	-.2719	-.2265	-.2223					
40.000		.0812	.1410	.2136	-.1886	-.2930	-.2938	-.2826	-.2433	-.2215					
70.000		-.0239	-.1318	-.0939	.0557	-.0442	-.0491	-.0609							
90.000		.0034	-.0323	.0157	.0302	-.0683	-.0873	-.0874							
105.000			.1154	-.0078	-.1095	-.1042	-.1181								
110.000								-.2158							
120.000		.0097	.0801	.0923	-.0336	-.2922	-.1258	-.1664							
135.000			.3297	.3750	-.2387	-.2180	-.2286								
150.000		-.0228	.1580	.3287	.4126	-.0518	-.1509	-.2714							
165.000		-.0440		.3271	.0619	-.1202	-.2609								
180.000		-.0600	.3300	.3500	.3980										

ALPHAO (9) = -.730 BETAO (9) = 6.350

SECTION (1) CARRIER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2920	.3010	.3790	.4990	.5760
PHI	.0000	1.3590	.7378	.2232	.1503	.3392	.0000	-.1405	.0117	-.1449	-.2609	-.2190	-.1320	-.0484	
20.000			.2146	.1909	.3138	-.4428		-.2266	-.0914						
40.000			.3519	.1431	.2203	-.1787		-.2289	-.1298	-.1075	-.2325	-.2359	-.0639	-.0639	.0075
55.000			.3016	.1159	.1414	-.0707		-.1764	-.2178						
70.000			.3461	.1146	.1030	.0002		-.1258	-.1824	-.5015	-.3679	-.2921	-.0895	-.0895	
90.000			.3746	.3519	.1531	.0715	.0372	-.0423	-.2301	-.5166	-.3104	-.2641	-.0829	-.0829	

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TABULATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 OR-T12-S12E5-AT10 CRB. FUSELAGE

(R61833)

ALPHAX(6) = -.750 BETA(9) = 6.350

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI																
120.000				.4068	.2201	.1221	.1980		.1725		-.2535	-.4653	-.6574	-.3816	-.1138	
140.000											-.4223					
150.000				.4321	.3323	.2341	.3120				-.4441	-.3218	-.3330	-.3497	-.2023	
151.000									.3069							
156.000																
162.000																
163.000									.4318							
169.000																
174.000																
180.000		1.3580	.6879	.4921	.3991	.3028	.3942		.7999		-.4824	-.4189	-.3470	-.2700	-.2428	
X/LB		.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0460					

PHI																
0.000		.0690	.1969	.2118	.2242	-.4369	-.3995	-.2850								
40.000		.0845	.1303	.1933	-.2377	-.3154	-.3120	-.3088								
70.000		-.0539	-.0768	-.0493	.1245	-.0548	-.1055	-.1114								
90.000		-.0626	.0107	.0265	.0664	-.0822	-.1357	-.1416								
105.000				.1148	.0234	-.1223	-.1538	-.1678								
110.000																
120.000		.0020	.1444	.0746	-.0493	-.2390	-.1779	-.2208								
135.000				.2084	.3965	-.2638	-.2916	-.2949								
150.000		-.0265	.1793	.2785	.4380	-.0560	-.1824	-.3188								
165.000		-.0337		.2967	.0421	-.1435	-.2684									
180.000		-.0857	.1076	.3114	.3789											

ALPHAX(6) = -.750 BETA(10) = 6.130

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI																
0.000		1.3100	.7103	.1814	.0816	.3452	.0000									
20.000				.1399	.0927	.3971	-.4997									
40.000				.2329	.0781	.2206	-.2505									
55.000				.2174	.0442	.1259	-.1113									
70.000				.2691	.0702	.0563	-.0284									
90.000			.2493	.2999	.0881	-.0029	.0020									
120.000				.3438	.1658	.0524	.1513									
140.000																
150.000				.3601	.3053	.1990	.2326									
151.000																
156.000																
162.000																
163.000																
169.000																
174.000																
180.000																



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ARC11-716 1A14 OR-112-S12N25-AT10 CAB. FUSELAGE (R81633)

ALPHAO(6) = -.750 BETA0(10) = 0.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
165.000								.7711							
169.000						.6777									
174.000								.7638							
180.000	1.3100	.6508	.4670	.3754	.3022	.3666									

X/LB .6530 .7300 .7810 .8230 .8820 .9230 .9630 1.0020 1.0210 1.0480

PHI

.0000	.0823	.1417	.2008	.2139	-.3039	-.3603	-.3023								
46.000	.0646	.1236	.1837	-.2876	-.3240	-.3196	-.3032								
70.000	-.0320	-.1271	-.0836	.1370	-.0485	-.1113	-.1280								
90.000	-.0007	-.0614	-.0087	.0390	-.0892	-.1400	-.1786								
105.000		.0780	.0013	-.1460	-.1823	-.2051									
110.000							-.2320								
125.000	-.0202	.0642	.1039	-.0756	-.2426	-.2039	-.2560								
133.000							-.2428								
150.000	.0024	.1471	.2176	.3561	-.0868	-.2235	-.3551								
165.000	-.0161		.2246		-.0042	-.1733	-.2786								
180.000	-.0822	.1020	.2430	.3391											

ALPHAO(6) = -.750 BETA0(11) = 10.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.0000	1.2480	.6882	.1514	-.0641	.4149	.0000									
3.000		.0660	-.0109	.3702	-.5461										
40.000			.1024	-.0016	.2319	-.3331									
55.000			.1045	-.0190	.1139	-.1995									
70.000			.1709	-.0179	.0009	-.0908									
90.000		.1336	.2237	.0180	-.0714	-.0242									
120.000			.2656	.0972	-.0116	.0198									
140.000				.2747	-.2578	.1510	.1666								
150.000															
151.000															
158.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.2480	.5930	.4170	.3217	.2884	.3165									

X/LB	.6530	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.0000										
3.000										
40.000										
55.000										
70.000										
90.000										
120.000										
140.000										
150.000										
151.000										
158.000										
162.000										
165.000										
169.000										
174.000										
180.000										

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MODULATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 01-712-S12M2+AT10 CRB. FUSELAGE

(R81833)

ALPHA(6) = -.790 BETA(11) = 10.11

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7900	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480
PHI	.0212	.1120	.1656	.1631	-.3970	-.3286	-.3123		-.2776	-.2997
40.000	.0477	.1123	.1619	.3155	-.4251	-.4041	-.2825		-.2964	-.2988
70.000	-.0435	-.1377	-.0969	.1026	.0615	-.1396	-.1626			
90.000	-.0223	-.0764	-.0314	-.0203	-.1296	-.1800	-.2126			
105.000			.0464	-.0082	-.1821	-.2091	-.2360			
110.000									-.2417	
120.000	-.0477	.0302	.0699	-.1228	-.2787	-.2545	-.3032		-.2906	
135.000			.0669	.2429	-.3965	-.4807	-.5328			
150.000	-.0966	.1100	.1622	.3911	-.1356	-.2807	-.3951			
165.000	-.1117		.1753		-.0322	-.2197	-.2655			
180.000	-.1807	.0269	.2063	.3051						

ALPHA(7) = 2.010 BETA(1) = -10.083

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0800	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI	1.2800	.6335	.3620	.2242	.4260	.0000		-.3109		-.2334	.0406	-.1541	-.1061	-.0963	.1365
20.000			.2609	.2967	.3899	.0045		-.3290		-.3903					
40.000			.6940	.4436	.3611	.2185		-.1214		-.1505	.1848	.0667	.0671	.0225	.1415
55.000			.9250	.6248	.4798	.3093		.1469		.0690					
70.000			.9422	.6269	.4793	.3466		.1256		.1256	-.2260	.0667	.0361	-.0661	
90.000	1.1270		.6615	.6412	.4506	.3768		.3387		.1783	-.1979	.0034	-.0320	-.0664	
120.000			.7327	.4697	.3799	.3695		.5127		.2008	-.1362	-.3518	-.2759	-.2949	
140.000								.5129		.1660					
150.000			.3019	.3406	.2679	.3368				.0655	-.5219	-.4480	-.3067	-.2442	
151.000								.6756							
156.000															
162.000								.9232							
165.000															
169.000															
174.000															
180.000	1.2800	.6679	.3541	.2609	.2182	.2664									
X/LB	.6630	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI	.2723	.3580	.4315	.4832	-.5403	-.3420	-.5017		-.2755	-.2726					
40.000	.3696	.3095	.7132	.3654	-.5180	-.4422	-.3936		-.2923	-.2413					
70.000	.0634	-.1784	-.2454	-.1466	.0103	-.0390	-.0345								
90.000	.0155	-.1276	-.0275	.0621	-.0316	-.0818	-.0694								
105.000			-.2199	.0414	-.1021	-.1110	-.1434								
110.000															



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 01-112-SIZES+AT10 CRB. FUSELAGE (R01833)

ALPHAX(7) = 2.010 BETA0(1) = -10.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6930	.7900	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.2547	-.3232	.0918	.3682	-.1323	-.1560	-.0413	-.0916		
135.000			.0918	.1004	-.2902	.0657	.0281			
150.000	-.2469	-.1323	.1407	-.0019	.1519	.2222	-.0329			
165.000	-.2040		.1509		.2913	.2740	-.0297			
180.000	-.1145	.0722	.1230	.1648						

ALPHAX(7) = 2.000 BETA0(2) = -8.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1530	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3820	.6672	.3969	.2491	.4575	.0000		-.3109	-.2120	.0576	-.0950	-.0137	-.0242	.1418	
20.000		.9226	.3066	.4099	-.0498			-.3615	-.3072	.0992	.0753	.0675	.0204	.1229	
40.000		.8664	.4211	.3836	.1708			-.1393	-.1798						
55.000		.8690	.5729	.4385	.2545	.1138		-.0253	-.0253						
70.000		.8789	.5937	.4242	.2909	.2033		.0749	.0749	-.2774	.0126	-.0028	-.0947		
90.000	1.0660		.6229	.5659	.3941	.3201		.2745	.1363	-.2414	-.1170	-.0703	-.0955		
120.000		.7027	.4596	.3481	.3622	.4946		.1477	.1477	-.1731	-.4273	-.2711	-.2572		
140.000						.1116		.0359	.0359	-.2279	-.4379	-.2706	-.2368		
150.000		.5099	.3564	.2761	.3567	.6476									
151.000						.9072									
156.000						.6679									
.62.000										-.4094	-.4844	-.4420	-.2970	-.2721	
165.000															
169.000						.9033									
174.000							.9987								
180.000	1.3820	.7006	.3667	.3026	.2477	.3193		.6913	-.4911	-.5049	-.3927	-.3209	-.3119		

X/LB	.6930	.7900	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.2711	.3918	.4221	.4560	-.4991	-.3473	-.2879		-.2712	-.2676
40.000	.3332	.4759	.6808	.3446	-.3063	-.3991	-.3557		-.2428	-.2231
70.000	-.0162	-.1890	-.2603	-.0927	-.0140	-.0458	-.0395			
90.000	-.0028	-.1362	-.2439	.0365	-.0676	-.0939	-.0739			
105.000		-.3009	.0164	-.1163	-.1270	-.1370				
110.000										
120.000	-.2434	-.3093	.0962	.3665	-.1612	-.1607	-.0458			
135.000		.9029	.1831	-.2527	.0637	.0319				
150.000	-.1633	.0075	.2308	.0693	.1073	.1680	-.0503			
165.000	-.0745		.1972	.2403	.1969	-.0732				
180.000	-.0315	.1141	.1670	.2366						

DATE 09 DEC 74

TABULATED PRESSURE DATA - 1A14A - VOL. 3
MRC11-716 1A14 OR-112-S12M25-AT10 ORB. FUSELAGE (RB1833)

ALPHA(7) = 2.050 BETA(3) = -6.040

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.3550	.6763	.5911	.2647	.4923	.0000	-.2994	-.2703	.0767	-.0210	.0000	-.0581	.1353	
20.000			.5041	.3035	.4370	-.1007		-.3611	-.2058	.0470	.0163	.0496	-.0208	.0858	
40.000			.6131	.3922	.3861	.1351		-.1566	-.0691						
55.000			.6081	.5199	.4042	.2135		.0637	.0374	-.3497	-.0590	-.0494	-.1192		
70.000			.6122	.5390	.3779	.2541		.1750	.0951	-.2845	-.2824	-.1021	-.1058		
90.000		.9670	.7638	.5340	.3453	.2635		.2413	.0992	-.2156	-.4602	-.2629	-.2241		
120.000			.6617	.4337	.3164	.3304		.4721	.0506						
140.000			.5090	.3631	.2799	.3564		.6047	-.1193	-.5275	-.4573	-.2913	-.2157		
151.000								.6711							
156.000								.6502	-.4007	-.4651	-.3936	-.3099	-.2422		
162.000								.6626							
165.000								.9926							
169.000								.7253	-.4497	-.4759	-.3680	-.3256	-.2530		
174.000		1.3950	.7101	.4012	.3297	.2693	.3403								
180.000		.6690	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480				

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.3970	.6704	.5514	.2347	.4906	.0000	-.2479	-.2698	.0846	-.0217	-.0563	-.0647	.1025	
20.000			.4526	.2363	.4333	-.1441		-.3369	-.2395	-.0617	-.0091	.0157	-.0375	.0544	
40.000			.7455	.3626	.1039			-.1651	-.2880						
55.000			.7291	.4417	.3437	.1736		.0605	-.0991	-.3497	-.1702	-.0872	-.1314		
70.000			.7367	.4261	.3103	.2139		.1061	.0066	-.3763	-.1702	-.0872	-.1314		
90.000		.9136	.7025	.4700	.2874	.2296		.1491	.0532	-.3190	-.3554	-.1319	-.1178		

ALPHA(7) = 1.960 BETA(4) = -3.990



(R01033)

ARC11-71C IA14 ORIFICE-RATIO CRB. FUELSAGE

ALPHA01 P1 = 1.980 BETA0 (S) = -2.020

SECTION (11)ORIFICE FUELSAGE DEPENDENT VARIABLE CP

W/LB	.0700	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
169.000								.8869							
168.000															
174.000							1.0100								
160.000	1.4190	.7370	.4614	.3797	.5069	.3710		.6231							
W/LB	.6030	.7300	.7810	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.000	.1899	.2872	.3368	.3754	.2964	.2849	.2541							
40.000	.2230	.3347	.3606	.1296	.2670	.3056	.2675								
70.000	-.0481	-.1848	-.2327	-.0004	-.0420	-.0973	-.0637								
90.000	-.0336	-.1092	-.0969	.0353	-.0686	-.1391	-.1193								
105.000		.1026	.0074	-.1635	-.1703	-.1426									
110.000															
120.000	-.0349	-.0536	.2106	.2211	-.2269	-.1309	-.1311								
135.000															
130.000	-.0348	.1199	.3301	.3014	-.0067	-.0040	-.1823								
165.000	-.0291		.2996		.1417	.0072	-.2207								
160.000	-.0791	.1650	.2748	.3488											

ALPHA01 P1 = 1.980 BETA0 (S) = .010

SECTION (11)ORIFICE FUELSAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000	.7143	.5717	.3360	.1683	.1332										
120.000		.5950	.3427	.2377	.2311										
140.000															
130.000		.5011	.3794	.2756	.3260										
151.000															
154.000															
162.000															
165.000															
169.000															
174.000															
190.000	1.4190	.7242	.4612	.3602	.3058	.3687									
W/LB	.6930	.7350	.7810	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

ORIGINAL PAGE IS OF POOR QUALITY



(R01833)

ARC11-716 1A14 ORBITERS-ATTN CRB. PUSBLAGE

ALPHAX T = 1.980 BETA (B) = .010

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.6930	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1871	.2339	.2357	.1836	-.2416	-.2784	-.2581		-.2394	-.2355
40.000	.1853	.2326	.2350	.0320	-.2432	-.2801	-.2490		-.2234	-.2147
70.000	-.0471	-.1750	-.2148	.0111	-.0478	-.1161	-.1095			
90.000	-.0111	-.0886	-.0468	.0111	-.0996	-.1314	-.1353			
105.000		.1096	.0077	-.1789	-.1711	-.1619				
110.000										-.1923
120.000	-.0103	.0075	.2107	.1964	-.2482	-.1888	-.1829			-.1987
135.000			.4783	.3147	-.1672	-.1036	-.1705			
150.000	-.0188	.1988	.2818	.3106	-.0135	-.0724	-.2218			
165.000	-.0236		.3014		.0943	-.0387	-.2310			
180.000	-.0247	.1982	.3080	.3796						

ALPHAX T = 1.980 BETA (T) = 2.030

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0630	.0470	.0770	.1120	.1990	.1780	.2050	.2320	.3010	.3790	.4990	.3780
PHI														
.000	1.4040	.8916	.3315	.2115	.3203	.0000		-.1829	-.1296	-.0176	-.0010	-.0373	-.0694	.0687
20.000		.5429	.2149	.7961	-.3029			-.2783	-.2310					
40.000		.5314	.2288	.2170	-.0389			-.2048	-.1919	-.0032	-.0784	-.1176	-.0941	.0642
55.000		.4814	.2380	.1847	.0231			-.0919	-.1823					
70.000		.4996	.2398	.1623	.0686			-.0389	-.0439	-.4645	-.3035	-.2038	-.1341	
90.000		.6011	.4843	.2733	.1278	.0755		.0319	-.1276	-.4228	-.4729	-.2357	-.1237	
120.000			.5041	.3031	.2227	.1830		.2912	-.1420	-.4148	-.5891	-.2343	-.1318	
140.000			.4777	.3687	.2813	.3035			-.2887	-.4125	-.5391	-.4186	-.3165	-.1027
151.000								.4321						
156.000								.7365						
162.000										-.3884	-.3207	-.3309	-.3241	-.1088
169.000														
175.000														
180.000	1.4840	.7038	.4737	.3894	.3095	.3399		.8312	-.3448	-.3096	-.3173	-.3147	-.1158	
W/LB	.6930	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480				
PHI														
.000	.1782	.2382	.2478	.1328	-.2540	-.2935	-.2864		-.2382	-.2361				
40.000	.1913	.2013	.2408	-.0843	-.2358	-.2760	-.2598		-.2293	-.2088				
70.000	-.0398	-.1743	-.1842	.0156	-.0385	-.1282	-.1220							
90.000	-.0013	-.0870	-.0361	.0009	-.1141	-.1478	-.1496							
105.000		.0848	-.0241	-.1899	-.1836	-.1717								-.2138

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(R81833)

ARC11-716 1A14 01-715-31262-AT10 CRG. FUELAGE

ALPHA(X) = 1.800 BETA(O) = 2.020

SECTION (1) ORBITER FUELAGE DEPOSIT VARIABLE CP

W/LB	.6530	.7000	.7610	.8230	.8820	.9430	.9630	1.0050	1.0210	1.0460
PHI										
20.000	.0112	.0479	.1706	.1008	-.2944	-.1930	-.1914	-.2227		
135.000		.3165	.2885	-.1812	-.1654	-.2219				
150.000	-.0088	.1268	.3823	.9371	-.0542	-.1236	-.2682			
165.000	-.0155		.3040	.0634	-.1081	-.2422				
180.000	-.0281	.1678	.2841	.9373						

ALPHA(X) = 1.800 BETA(O) = 4.080

SECTION (1) ORBITER FUELAGE DEPOSIT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3610	.6137	.2822	.1949	.3166	.0000		-.1688		-.1183	-.0478	-.0230	-.0682	-.0265	.0441
20.000		.2836	.1963	.2731	-.3663			-.2369		-.2352					
40.000		.4463	.1988	.2038	-.1014			-.2270		-.1986	-.0324	-.1125	-.1475	-.0336	.0716
55.000		.3922	.1828	.1514	-.0303			-.1339		-.2113					
70.000		.4239	.1884	.1299	.0174			-.0991		-.1116	-.4898	-.3340	-.2332	-.1143	
90.000		.4608	.3931	.2090	.0942	.0469		-.0103		-.1696	-.4569	-.2038	-.2352	-.1111	
120.000		.4531	.2388	.1657	.1438			.2389		-.1968	-.4480	-.6446	-.2868	-.1140	
140.000		.4474	.3465	.2230	.2364					-.4393	-.5416	-.3838	-.3368	-.1124	
150.000								.6751	.3677						
151.000									.4394						
156.000								.6143							
162.000															
145.000															
169.000															
174.000															
180.000	1.3610	.6789	.4708	.3791	.2883	.2683		.6143							
W/LB	.6530	.7000	.7610	.8230	.8820	.9430	.9630	1.0050	1.0210	1.0460					
PHI															
.000	.1881	.2156	.2446	.1818	-.2310	-.3104	-.2880			-.2205	-.2127				
40.000	.1201	.1731	.2278	-.1642	-.2878	-.2880	-.2780			-.2318	-.2125				
70.000	-.0442	-.1878	-.1632	.0342	-.0732	-.0869	-.0956								
90.000	-.0074	-.0800	-.0893	-.0176	-.1182	-.1224	-.1193								
105.000			.0806	-.0374	-.1893	-.1407	-.1589								
110.000								-.2137							
120.000	.0084	.0425	.1727	-.0019	-.2931	-.1797	-.1913								
135.000			.3184	.3386	-.2396	-.1865	-.2402								
150.000	.0019	.1345	.2773	.3291	-.0647	-.1604	-.2900								
165.000	-.0188		.2680		.0372	-.1402	-.2388								
180.000	-.0312	.1368	.2688	.3454											



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A16 ORBITER PUSBLAGE (MS1833)

ALPHA (7) = 2.040 BETA (9) = 6.000

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3480	.7919	.2005	.1374	.0991	.0000		-.1703		-.1497	-.1234	-.1059	-.1401	.0136	.0176
20.000			.2033	.1674	.2962	-.4372		-.2431		-.2065					
40.000			.3927	.1472	.1856	-.1874		-.2328		-.2167	-.0821	-.1364	-.1495	-.0292	.0510
55.000			.3024	.1100	.1167	-.0658		-.1969		-.2390					
70.000			.3371	.1122	.0677	-.0272		-.1624		-.1453	-.3064	-.3448	-.2701	-.0940	
90.000	.3923		.3160	.1351	.0992	.0047		-.0514		-.2162	-.4914	-.5227	-.2601	-.0436	
120.000			.3856	.1991	.1049	.0885		.1751		-.2466	-.4785	-.6571	-.2996	-.0938	
140.000										-.4173					
170.000			.3949	.2832	.1962	.1994			.3023	-.4537	-.5406	-.3705	-.3750	-.1393	
191.000															
196.000								.6203	.4179						
162.000										-.6223	-.5409	-.3901	-.3388	-.1931	
168.000															
174.000															
180.000	1.3480	.6274	.4372	.3471	.2721	.2830	.9026	.7636	.7623	-.5032	-.4649	-.3654	-.3126	-.2316	

ALPHA (7) = 2.056 BETA (10) = 8.110

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3480	.7919	.2005	.1374	.0991	.0000		-.1703		-.1497	-.1234	-.1059	-.1401	.0136	.0176
20.000			.2033	.1674	.2962	-.4372		-.2431		-.2065					
40.000			.3927	.1472	.1856	-.1874		-.2328		-.2167	-.0821	-.1364	-.1495	-.0292	.0510
55.000			.3024	.1100	.1167	-.0658		-.1969		-.2390					
70.000			.3371	.1122	.0677	-.0272		-.1624		-.1453	-.3064	-.3448	-.2701	-.0940	
90.000	.3923		.3160	.1351	.0992	.0047		-.0514		-.2162	-.4914	-.5227	-.2601	-.0436	
120.000			.3856	.1991	.1049	.0885		.1751		-.2466	-.4785	-.6571	-.2996	-.0938	
140.000										-.4173					
170.000			.3949	.2832	.1962	.1994			.3023	-.4537	-.5406	-.3705	-.3750	-.1393	
191.000															
196.000								.6203	.4179						
162.000										-.6223	-.5409	-.3901	-.3388	-.1931	
168.000															
174.000															
180.000	1.3480	.6274	.4372	.3471	.2721	.2830	.9026	.7636	.7623	-.5032	-.4649	-.3654	-.3126	-.2316	

ALPHA (7) = 2.066 BETA (10) = 8.110

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2930	.7006	.1492	.0469	.3092	.0000		-.1731		-.1808	-.1990	-.0967	-.1435	-.0223	.0002
20.000			.1065	.0936	.2947	-.3104		-.2304		-.1793					
40.000			.2290	.0471	.1943	-.2303		-.2680		-.1963	-.1332	-.2370	-.2313	-.0490	.0427
55.000			.1934	.0433	.0945	-.1397		-.2039		-.2563					
70.000			.2471	.0368	.0403	-.0597		-.1759		-.1902	-.3314	-.3766	-.2902	.0099	
90.000	.8040	.2492	.0715	-.0106	-.0264			-.0996		-.2697	-.3563	-.3237	-.2895	-.0159	

ARC11-716 1A14 04112-81263-AT10 CRB. PUBLAGE (R01833)

ALPHAX 71 = 2.000 BETAO (10) = 0.110

SECTION (1) CRITTER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1500	.1870	.1700	.2030	.2010	.3700	.4990	.5700
PHI			.3131	.1401	.0353	.0369	.1068			-.2592	-.5130	-.0687	-.3409	-.0503
120.000										-.4674				
140.000														
160.000			.3323	.2500	.1593	.1404				-.4709	-.5765	-.3793	-.3949	-.1713
180.000							.9711							
194.000								.3663		-.4736	-.3296	-.3046	-.3504	-.3112
162.000														
178.000														
174.000														
160.000	1.2597	.9011	.4022	.3135	.2462	.2445	.6393	.7323		-.5093	-.4993	-.3924	-.3246	-.3017
W/LB	.0000	.7200	.7010	.6230	.6460	.9250	.9450	1.0210	1.0490					

PHI

.600	.1017	.1741	.2508	.3208	.3503	.3334	.3024			-.2492	-.2271			
40.000	.0976	.1547	.2142	.2744	.3029	.3216	.2924			-.2640	-.2393			
70.000	-.0530	-.1733	-.1376	.1185	.0824	.1316	.1823							
90.000	-.0126	-.1103	-.0434	.0413	.1220	-.1624	-.2063							
109.000		.0487	-.0030	-.1924	-.2328	-.2374								
110.000							-.2334							
120.000	-.0591	-.0264	.2240	-.0309	-.2329	-.2221	-.2711			-.2466				
139.000			.3326	.2162	-.2943	-.3319	-.3462							
150.000	.0030	.1135	.1944	.2202	-.1176	-.2476	-.3293							
165.000	.0012	.1909			-.0760	-.2230	-.2700							
160.000	-.0149	.1161	.1905	.2327										

ALPHAX 71 = 2.350 BETAO (11) = 10.130

SECTION (1) CRITTER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1500	.1870	.1700	.2030	.2010	.3700	.4990	.5700
PHI			.1304	-.1025	.3092	.0000				-.2204	-.1711	-.1039	-.1993	-.0438
20.000			.0364	-.0468	.3301	-.2649				-.1162				
40.000			.0590	-.0043	.2034	-.3579				-.1713	-.1646	-.2035	-.1077	-.0849
55.000			.0275	-.0213	.0822	-.1922				-.2336				
70.000			.1027	-.0377	-.0017	-.0997				-.2172	-.3293	-.3409	-.2715	-.0776
90.000	.0049	.1651	-.0030	-.0741	-.0829					-.3041	-.3737	-.4733	-.2463	-.0576
120.000			.2202	.0716	-.0396	-.0230				-.4975	-.3370	-.5330	-.0926	-.2975
140.000										-.4967	-.3990	-.3900	-.3945	-.1629
150.000			.2037	.1974	.1016	.0513				.1621				
151.000														
156.000														
162.000														



0

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ARC11-716 1A14 21-712-812-23-ATT10 CRG. PUSBLAGE (R81833)

ALPHAOK 7) = 2.320 BETMO (11) = 10.120

SECTION (1) - CRIBBITER PUSBLAGE DEPENDENT VARIABLE CP

W/L	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650	.0700	.0750	.0800	.0850	.0900	.0950	.1000
PHI																					
105.000																					
109.000																					
114.000																					
120.000																					

ALPHAOK 8) = 4.300 BETMO (11) = -9.900

SECTION (1) - CRIBBITER PUSBLAGE DEPENDENT VARIABLE CP

W/L	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650	.0700	.0750	.0800	.0850	.0900	.0950	.1000
PHI																					
105.000																					
110.000																					
115.000																					
120.000																					

0

ALPHA (1) = 4.300 BETA (1) = -9.960

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6500	.7500	.7810	.8250	.8820	.9250	.9650	1.0020	1.0210	1.0480
PHI										
.000	.2975	.3759	.4547	.5120	-.5347	-.3372	-.2967		-.2682	-.2652
40.000	.4024	.5203	.7417	.4127	-.3208	-.4496	-.4019		-.2461	-.2351
70.000	-.0214	-.2038	-.2768	-.2377	-.0209	-.0749	-.0679			
90.000	-.0005	-.2964	-.2390	.0225	-.1043	-.1139	-.1061			
105.000		-.2682	.0255	-.1297	-.1661	-.1613				
110.000							-.1461			
120.000	-.3985	-.4190	.0061	.3607	-.1742	-.1967	-.0843			
135.000		.0303	.0636	-.3372	.0501	-.0437	-.1366			
150.000	-.2958	-.1108	.0779	.0160	.0759	.1176	-.1097			
165.000	-.1355	.0867		.2333	.2516	-.0596				
180.000	-.0757	.0456	.0872	.2112						

ALPHA (2) = 4.200 BETA (2) = -8.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0850	.0900	.0820	.0470	.0700	.1120	.1390	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3680	.8928	.4094	2.422	.4327	.0000		-.3171	-.2283	.0480	-.0564	-.0119	-.0402	.1767	
20.000		.5442	.3206	.4005	-.0823			-.3689	-.3406						
40.000		.8768	.4263	.3957	.1965			-.1571	-.2036	-.1077	.0278	.0700	.0215	.1678	
55.000		.8854	.6039	.4574	.2598			.0774	-.0485						
70.000		.8438	.6070	.4269	.2713			.1628	.0676	-.2981	-.0486	.0183	-.0646		
90.000	1.0480	.8050	.5840	.3862	.2890			.2489	.1329	-.2515	-.2050	-.0804	-.0992		
105.000		.8864	.4249	.3056	.2838			.4729	.1337	-.1912	-.4405	-.3243	-.3245		
140.000		.4819	.3050	.2294	.2469				.0946	.0115	-.5992	-.4932	-.3245	-.2663	
150.000								.6361							
170.000								.8964							
180.000															
195.000	1.3080	.6656	.3242	.2399	.1999	.2187		.8879							
174.000							.9754								
180.000	.6980	.7500	.7810	.6250	.8820	.9250	.9650	1.0020	1.0210	1.0480					
PHI															
.000	.2987	.3745	.4590	.4729	-.5043	-.3588	-.2829		-.2693	-.2632					
40.000	.3787	.5126	.7070	.3726	-.3028	-.4030	-.3569		-.2584	-.2216					
70.000	-.0388	-.2190	-.2899	-.1466	-.0826	-.0828	-.0891								
90.000	-.0804	-.1988	-.2759	.0056	-.1121	-.1166	-.1160								
105.000		-.0826	.0001	-.1567	-.1487	-.1822									
110.000							-.1598								



ARC11-716 1A14 04+112+512M3+AT10 ORB. FUSELAGE (881833)

ALPHAO (8) = 4.200 BETA0 (4) = -3.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.3940	.6626	.3200	.2166	.4569	.0000	-.2457	.5590	-.2010	.0236	.0241	-.0323	-.0016	.1224
20.000					.4809	.2534	.4036	-.3490		-.2627					
40.000					.7534	.3596	.3596	-.1851		-.2893	-.2109	-.0108	.0216	-.0272	.0987
55.000					.7331	.4606	.3566	.0123		-.1256					
70.000					.7303	.4621	.3162	.0706		-.0060	-.3688	-.2566	-.0674	-.1447	
90.000			.6903		.6810	.4569	.2779	.1251		.0486	-.3306	-.3633	-.1291	-.1332	
120.000					.5973	.3704	.2330	.4137		.0285	-.2785	-.5039	-.3077	-.2272	
140.000					.4707	.3326	.2429	.2677		-.0369	-.5603	-.4832	-.3361	-.2142	
150.000								.2353							
151.000								.8732							
156.000								.7707							
162.000								.9956							
169.000															
174.000			.6939	.3901	.3180	.2530	.2547			-.5327	-.3286	-.3779	-.3367	-.1911	
180.000		.6530	.7300	.7610	.6230	.6820	.9230	1.0020	1.0210	1.0480					

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.4020	.6664	.2972	.1815	.3670	.0000	-.1631	.5590	-.2191	-.0511	.0332	-.0246	-.0207	.0997
20.000					.3694	.1821	.3437	-.3060		-.1910					
40.000					.8754	.2753	.3033	-.1977		-.3130	-.1735	-.0299	-.0028	-.0489	.1036
55.000					.6450	.3756	.2903	.0108		-.1542					
70.000					.6823	.3813	.2309	.0022		-.0379	-.4141	-.2985	-.1023	-.1474	
90.000			.6016	.6199	.3903	.2222	.1963	.0870		.0116	-.3667	-.4120	-.1636	-.1343	

ALPHAO (8) = 4.200 BETA0 (5) = -2.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.4020	.6664	.2972	.1815	.3670	.0000	-.1631	.5590	-.2191	-.0511	.0332	-.0246	-.0207	.0997
20.000					.3694	.1821	.3437	-.3060		-.1910					
40.000					.8754	.2753	.3033	-.1977		-.3130	-.1735	-.0299	-.0028	-.0489	.1036
55.000					.6450	.3756	.2903	.0108		-.1542					
70.000					.6823	.3813	.2309	.0022		-.0379	-.4141	-.2985	-.1023	-.1474	
90.000			.6016	.6199	.3903	.2222	.1963	.0870		.0116	-.3667	-.4120	-.1636	-.1343	



ARC11-716 1A14 01-712-S12E9-A110 CR8. FUSELAGE (R21833)

ALPHAX (8) = 4.220 BETA (5) = -2.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.5780
PHI															
120.000	.5644	.3406	.2341	.2203	.3614										
140.000															
150.000	.4714	.3399	.2437	.2692											
151.000					.6141										
156.000															
162.000															
165.000															
169.000															
174.000															
190.000	1.4020	.6839	.4130	.3323	.2670	.2413	.9973	.8156							
X/LB	.6930	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.5780
PHI															
40.000	.2117	.2816	.3408	.3482	-.2913	-.2677	-.2506								
70.000	-.0738	-.2140	-.2657	-.1779	-.0526	-.1150	-.1104								
90.000	-.0415	-.1965	-.1910	-.0097	-.1260	-.1969	-.1514								
103.000			.0620	-.0207	-.2042	-.1672	-.1773								
110.000															
120.000	-.0729	-.0820	.1765	.2140	-.2593	-.2045	-.1533								
135.000			.3365	.2647	-.1672	-.0716	-.1367								
150.000	-.0199	.0835	.3068	.2902	-.0343	-.0359	-.1934								
165.000	-.0106		.2735	.0956	-.0304	-.2280									
190.000	-.0021	.1463	.2631	.3542											

ALPHAX (8) = 4.240 BETA (6) = -.070

SECTION (3) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.5780
PHI															
20.000	1.4040	.6677	.2820	.1944	.3163	.0000									
40.000			.3253	.1949	.2676	-.2162									
55.000			.5930	.2360	.2476	.0364									
70.000			.5513	.2379	.2269	.0769									
90.000			.5668	.3085	.1966	.1166									
120.000		.6643	.5466	.3226	.1523	.1176									
130.000		.9160	.3044	.2320	.1791										
140.000			.4596	.3324	.2326	.2230									
150.000															
151.000															
156.000															
162.000															

.4817

.7743

.5437

ARC11-716 1A14 04+T12+S12E25+AT10 CRB. FUSELAGE (RB1833)

ALPHAX (8) = 4.260 BETA0 (9) = -.070

SECTION (11) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.2070	.2320	.3010	.3790	.4990	.5760
PHI														
165.000						.8719								
166.000							.9246							
174.000								.8366						
180.000	1.4040	.6660	.4099	.3319	.2606	.2222								
X/LB	.6650	.7500	.7610	.8250	.8620	.9250	.9630	1.0020	1.0210	1.0460				
PHI														
.000	.2102	.2363	.2757	.1997	-.2348	-.2615	-.2545							
40.000	.2091	.2916	.3672	.0366	-.2322	-.2625	-.2464							
70.000	-.0480	-.2002	-.2322	-.0480	-.0670	-.1330	-.1310							
90.000	-.0255	-.1356	-.0842	-.0134	-.1321	-.1746	-.1646							
105.000			.0810	-.0372	-.2186	-.1974	-.1640							
110.000								-.2032						
120.000	-.0217	-.0355	.1463	.1689	-.2673	-.2244	-.1601	-.2115						
135.000			.3966	.3034	-.1963	-.1263	-.1900							
150.000	-.0026	.1161	.3396	.3034	-.0613	-.1059	-.2448							
165.000	-.0026		.3001	.0819	-.0967	-.2320								
180.000	-.0805	.1367	.3021	.3675										

ALPHAX (8) = 4.260 BETA0 (9) = 1.990

SECTION (11) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0600	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3810	.6487	.2360	.2076	.3049	.0000									
20.000		.3428	.2084	.2713	-.2868										
40.000		.5375	.2164	.2130	-.0299										
55.000		.4785	.2446	.1823	.0190										
70.000		.4917	.2459	.1323	.0636										
90.000	.9002	.4847	.2376	.1129	.0636										
120.000		.4723	.2482	.1740	.1876										
140.000		.4315	.3207	.2222	.1756										
150.000															
154.000															
162.000															
166.000															
169.000															
174.000															
180.000	1.3810	.6456	.4233	.3443	.2670	.2375									
X/LB	.6660	.7500	.7610	.8250	.8620	.9250	.9630	1.0020	1.0210	1.0460					
PHI															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
154.000															
162.000															
166.000															
169.000															
174.000															
180.000	1.3810	.6456	.4233	.3443	.2670	.2375									
X/LB	.6660	.7500	.7610	.8250	.8620	.9250	.9630	1.0020	1.0210	1.0460					

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ARC11-716 1A14 OR-T12-S12MS-AT10 CRB. FUELRAGE

(R81833)

ALPHAO1 (8) = 4.220 BETA0 (7) = 1.990

SECTION (1) - CRIBBITER FUELRAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.000	.2037	.2328	.2646	.1667	-.2429	-.2964	-.2120			
40.000	.1616	.2265	.2682	-.0656	-.2613	-.2786	-.2631			
70.000	-.0284	-.1973	-.2375	-.0950	-.0736	-.1468	-.1952			
90.000	-.0132	-.1213	-.0766	-.0196	-.1397	-.1620	-.1627			
105.000			.0790	-.0406	-.2361	-.2007	-.1939			
110.000								-.2222		
120.000	.0109	-.0039	.1939	.1040	-.2600	-.2459	-.2047			
135.000			.9073	.2772	-.1938	-.1693	-.2334			
150.000	.0130	.1226	.3166	.3166	-.0749	-.1495	-.2620			
165.000	.0006		.2964		.0345	-.1266	-.2473			
180.000	-.0085	.1481	.2371	.3322						

ALPHAO1 (8) = 4.430 BETA0 (8) = 4.100

SECTION (1) - CRIBBITER FUELRAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2360	.3010	.3790	.4990	.5760
PHI															
.000	1.3680	.8115	.2367	.1946	.2646	.0000									
20.000		.2391	.1909	.2363	-.3606										
40.000		.4428	.1665	.1922	-.0934										
55.000		.3637	.1796	.1494	-.0351										
70.000		.4077	.1767	.1137	.0172										
90.000		.4963	.3648	.1691	.0758	.0169									
120.000		.4204	.2239	.1396	.0913										
140.000		.4031	.3009	.1665	.1461										
150.000															
171.000															
196.000															
165.000															
169.000															
174.000															
193.000	1.3680	.8115	.2367	.1946	.2646	.0000									
W/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					
PHI															
.000	.1846	.2339	.2362	.1665	-.2116	-.2676	-.2756								
40.000	.1419	.1934	.2356	-.1693	-.3740	-.3397	-.2372								
70.000	-.0656	-.1962	-.2219	-.0310	-.0665	-.1202	-.1263								
90.000	-.0236	-.1216	-.0771	-.0326	-.1346	-.1436	-.1496								
105.000			.0366	-.0341	-.2362	-.1793	-.1761								
110.000															

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ARC11-716 1A14 CR-1112-312MS-AT10 CRB. FUSELAGE (R81833)

ALPHAX (S) = 4.430 BETA0 (S) = 4.100

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

K/LB	.6830	.7800	.7810	.8230	.8230	.8230	.9430	1.0020	1.0210	1.0480
PHI										
120,000	.0154	.0167	.2091	.0667	-.2729	-.2274	-.2049	-.2049	-.2331	
135,000			.3656	.2722	-.2306	-.2007	-.2613			
150,000	.0191	.1235	.2790	.3006	-.0633	-.1755	-.3027			
165,000	.0041		.2400	.0009	-.1737	-.2429				
180,000	-.0054	.1362	.2468	.3404						

ALPHAX (S) = 4.410 BETA0 (S) = 6.040

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

K/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760	
PHI																
.000	1.3370	.7586	.1708	.1630	.2368	.0000		-.1918		-.2025	-.0869	-.0455	-.0590	-.0702	.0476	
20,000		.1799	.1794	.2368	-.4268			-.2438		-.2339	-.2707	-.0836	-.1233	-.1098	-.0090	.0771
40,000		.3919	.1628	.1620	-.1900			-.2708		-.2645						
56,000		.2915	.1299	.1076	-.0916			-.2044		-.1629	-.3200	-.3585	-.2995	-.1104		
70,000		.3879	.1114	.0732	-.0296			-.1637		-.2043	-.4973	-.5474	-.2706	-.0933		
90,000	.3148		.2941	.1242	.0287	-.0058		-.0468		-.2394	-.4962	-.6792	-.2726	-.1127		
120,000		.3379	.1739	.0854	.0323			.1813		-.4207						
140,000		.3543	.2488	.1322	.1279					-.4686	-.5733	-.4065	-.3962	-.1168		
150,000								.3011								
176,000								.6176								
190,000								.7707		-.4302	-.5170	-.3635	-.3704	-.1697		

K/LB	.6830	.7800	.7810	.8230	.8230	.8230	.9430	1.0020	1.0210	1.0480
PHI										
.000	.1906	.2117	.2645	.2686	-.7411	-.3106	-.2311		-.2496	-.2159
40,000	.1303	.1796	.2308	-.2039	-.3629	-.3776	-.2939		-.2914	-.2327
70,000	-.0814	-.1684	.1927	.0641	-.0976	.1672	-.1712			
90,000	-.0391	-.1065	-.0532	-.0011	-.1236	.1672	-.1972			
105,000		.0701	-.0235	-.1680	-.2206	-.2265				
120,000	.0114	.0365	.0719	.0177	-.2982	-.2162	-.2346			
135,000		.4071	.2967	-.2393	-.2614	-.3033				
150,000	.0140	.1323	.2483	.2591	-.0875	-.2148	-.3422			
165,000	.0888		.2332		-.0318	-.1935	-.2914			
180,000	-.0194	.1325	.2340	.2792						



ARC11-716 7A14 06-712-512MS-AT10 CRG. FUSELAGE (881833)

ALPHAO 01 = 4.410 SETAO (10) = 8.150

SECTION 1 1/3ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/S	.0000	.0060	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PWT	.000	1.2750	.0613	.1100	.0987	.2034	.0005	-.1786	-.2126	-.1666	-.1125	-.0797	-.0321	-.0219	
20.000				.0619	.1102	.2275	-.9223	-.2390	-.2409					-.2409	
40.000				.1938	.1290	.1533	-.2459	-.2790	-.2822	-.1323	-.1705	-.1371	-.0509	-.0481	
90.000				.1744	.0768	.0717	-.1303	-.2129	-.2768					-.2768	
70.000				.2276	.0509	.0232	-.0714	-.1990	-.1891	-.5373	-.3781	-.2781	-.0111		
90.000			.1791	.2144	.0613	-.0095	-.0406	-.0900	-.2497	-.2637	-.9617	-.2703	.0363		
120.000				.2845	.1160	.0247	.0063	.1127	-.2933	-.3241	-.6943	-.3061	-.0382		
140.000								-.4674	-.4690	-.5943	-.4113	-.4225	-.1066		
150.000				.2966	.2213	.1220	.0781	.2178							
170.000								.5995							
190.000								.3672							
160.000									-.4939	-.5599	-.4191	-.3828	-.2089		
180.000								.7271							
170.000															
160.000															
170.000															
180.000															
W/S	.0000	.7500	.7010	.6250	.6620	.9230	.9630	1.0020	1.0210	1.0460					
PWT	.000	.1829	.1874	.2448	.2448	-.3916	-.3168	-.2936	-.2965	-.2174					
40.000		.1247	.1794	.2491	-.2929	-.3961	-.3661	-.2962	-.2706	-.2732					
70.000		-.0490	-.2016	.0827	-.1154	-.1740	-.1865								
90.000		-.0271	-.1346	-.0771	.0533	-.1422	-.2112	-.2227							
100.000			.0466	-.0326	-.1936	-.2479	-.2670								
110.000								-.2604							
120.000		-.0160	-.0176	.3450	-.0243	-.3087	-.2379	-.2937							
130.000			.3699	.2296	-.2643	-.3237	-.3339								
150.000		-.0808	.0340	.2056	.1434	-.1328	-.2631	-.3799							
160.000		-.0038		.1713	-.1024	-.2378	-.2604								
190.000		-.0091	.3661	.1829											

ALPHAO 01 = 4.360 SETAO (11) = 10.140

SECTION 1 1/3ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/S	.0000	.0060	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PWT	.000	1.1940	.0641	.1133	-.1096	.1737	.0000	-.2333	-.2377	-.1368	-.0797	-.0873	-.0619	-.0139	
20.000				.0827	-.0576	.3078	-.2613	-.2711	-.1967						
40.000				.0148	.0303	.1882	-.3373	-.2864	-.2487	-.1304	-.1894	-.1707	-.0396	.0412	
90.000				-.0194	.0206	.0227	-.2051	-.2257	-.2709						
70.000				.0578	-.0216	-.0025	-.1079	-.2341	-.2140	-.3318	-.3318	-.2745	-.0703		
90.000			.0439	.1003	-.0072	-.0224	-.0796	-.1349	-.2987	-.3268	-.4643	-.2375	-.0364		

ARC11-716 1A14 04-712-912ES-AT10 CRB. PUBLAGE (081833)

ALPHA(1) = 4.340 BETA(1) = 10.140

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1790	.2050	.2520	.3010	.3790	.4990	.5790
PHI		.1753	.0334	-.0321	-.0307		.0412		-.3325	-.5427	-.7028	-.8758	-.1099		
120.000									-.9009						
140.000		.1957	.1624	.0701	.0139		.1425		-.5017	-.4050	-.4042	-.4174	-.1539		
150.000							.3185								
174.000							.3354		-.5964	-.5216	-.4323	-.3721	-.2614		
182.000							.6909								
185.000									-.5304	-.5479	-.4324	-.3432	-.3335		
174.000															
180.000	1.1040	.4673	.2682	.2129	.1546	.1229	.7966								
W/LB	.0000	.7500	.7610	.6250	.6660	.9230	.9480	1.0020	1.0210	1.0480					

PHI

.000	.0990	.1476	.1959	.2059	-.3919	-.3824	-.3094		-.2593	-.2180					
40.000	.1020	.1629	.2280	-.3141	-.4104	-.4008	-.2964		-.2964	-.2906					
70.000	-.0821	-.2035	-.2235	.0971	-.1235	-.2013	-.2195								
90.000	-.0399	-.1456	-.1164	.0298	-.1393	-.2324	-.2322								
105.000		.0134	-.0175	-.2276	-.2968	-.3050									
110.000							-.2405								
120.000	-.1027	-.1127	.2911	-.0492	-.3122	-.2754	-.3209		-.2687						
135.000			.3076	.1419	-.2532	-.4014	-.4090								
150.000	-.0495	.0021	.1390	.1020	-.2142	-.3461	-.3994								
165.000	-.0487		.1041		-.1706	-.3323	-.2337								
180.000	-.0395	.0404	.0976	.2016											

ALPHA(1) = 6.340 BETA(1) = -9.940

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1790	.2050	.2520	.3010	.3790	.4990	.5790
PHI		.4093	.2132	.4023	.0000		-.2270		-.2322	.1259	-.1146	.0190	.0610	.1975	
20.000		.9080	.3254	.3546	.0255		-.3709		-.3408						
40.000		.2156	.2095	.2911	.1616		-.1926		-.1767	-.1110	.0323	.0606	.0605	.2937	
56.000		.9464	.6490	.5125	.2775		.0850		.0536						
70.000		.9499	.6823	.4876	.3029		.1924		.1023	-.1961	.0306	.0437	-.0394		
90.000	1.1000	.8972	.6800	.4304	.3112		.2335		.1746	-.1559	-.0632	-.0295	-.0736		
120.000		.9622	.4103	.2839	.2460		.4604		.1733	-.1559	-.3678	-.3720	-.4276		
148.000							.1436								
170.000		.4042	.2294	.1791	.1796		.0366		.0366	-.2962	-.2953	-.2950	-.2950		
191.000							.6655								
198.000							.6492								
182.000															



061833)

ARC11-716 1A14 04-T12-SYSTEMS-RATIO CRG. FUSLAGE

ALPHAX 9) = 6.340 BETMO (1) = -9.940

SECTION (1) CRIBBITER FUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.3760
PHI															
165.000															
169.000															
174.000															
190.000	1.2460	6.002	2.416	1.170	1.331	1.200	.9353	.6691							
W/LB	.6630	.7300	.7810	.8230	.8620	.9230	.9430	1.0020	1.0210	1.0460					
PHI															
.000	.3072	.3630	.4677	.5682	.5275	-.3254	-.2908								
40.000	.3643	.5308	.7193	.4016	-.3162	-.4109	-.3483								
70.000	-.0176	-.2313	-.3060	-.3300	-.1072	-.0608	-.0672								
90.000	-.0173	-.1069	-.2912	-.0232	-.1302	-.1600	-.1263								
105.000															
110.000															
120.000	-.4854	-.5177	-.1073	.3472	-.1936	-.2302	-.1701								
135.000															
150.000	-.2121	-.1203	.0534	.0420	.0201	-.0355	-.2206								
165.000	-.1014	.0482			.1833	.2044	-.0726								
190.000	-.0725	-.0548	.0766	.2114											

ALPHAX 9) = 6.360 BETMO (2) = -7.970

SECTION (1) CRIBBITER FUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.3760
PHI															
.000	1.2970	.9120	.4848	.2306	.4071	.0000									
20.000															
40.000															
55.000															
70.000															
90.000	1.0520														
120.000															
140.000															
150.000															
171.000															
196.000															
169.000															
174.000															
190.000	1.2970	.9104	.2742	.2139	.1367	.1917									
PHI															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
171.000															
196.000															
169.000															
174.000															
190.000	1.2970	.7800	.7810	.8230	.6820	.9230	.9430	1.0020	1.0210	1.0460					

W/LB .0000 .0090 .0230 .0470 .0700 .1120 .1990 .1670 .1760 .2030 .2320 .3010 .3790 .4990 .3760

(R51033)

ARC11-716 1A14 ON-TIE-SIGMA-AT10 CRG. PURCHASE

ALPHA(X) = 0.300 BETA(O) = -7.970

SECTION (1) - CRIBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0030	.7000	.7010	.0020	.0000	.0020	.0030	.0000	1.0000	1.0010	1.0000
PHI											
.000	.3000	.3791	.4913	.4806	-.3026	-.3346	-.2917				
40.000	.3704	.5034	.6936	.5475	-.3041	-.3430					
70.000	-.0464	-.2468	-.3104	-.2404	-.1103	-.0947	-.1010				
90.000	-.0334	-.2016	-.3084	-.0427	-.1522	-.1423					
101.000		-.0711	-.0408	-.1080	-.2446	-.1907					
110.000											
120.000	-.4311	-.4738	.0438	.5334	-.2021	-.2321	-.1993				
135.000			.1416	.1082	-.3168	-.0309	-.0609				
150.000	-.0872	.0082	.1044	.1304	-.0328	.0313	-.1308				
165.000	-.0438		.1163		.0743	.0933	-.1393				
180.000	-.0316	.0085	.1299	.2812							

ALPHA(X) = 3.960 BETA(O) = -6.000

SECTION (1) - CRIBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0020	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5780
PHI															
.000	1.3330	.9164	.4099	.2307	.4219	.0000									
20.000		.5374	.3081	.3886	-.0875										
40.000		.6436	.4414	.3787	.1274										
55.000		.8387	.5804	.4173	.1890										
70.000		.6133	.5227	.3766	.2160										
90.000		.9380	.7406	.5211	.3236	.2315									
120.000		.5982	.3627	.2303	.2300	.4293									
140.000															
150.000		.4227	.2782	.1970	.2020										
175.000															
185.000															
195.000															
199.000															

ALPHA(X) = 0.300 BETA(O) = -7.970

SECTION (1) - CRIBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0030	.7000	.7010	.0020	.0000	.0020	.0030	.0000	1.0000	1.0010	1.0000
PHI											
.000	.3000	.3791	.4913	.4806	-.3026	-.3346	-.2917				
40.000	.3704	.5034	.6936	.5475	-.3041	-.3430					
70.000	-.0464	-.2468	-.3104	-.2404	-.1103	-.0947	-.1010				
90.000	-.0334	-.2016	-.3084	-.0427	-.1522	-.1423					
101.000		-.0711	-.0408	-.1080	-.2446	-.1907					
110.000											
120.000	-.4311	-.4738	.0438	.5334	-.2021	-.2321	-.1993				
135.000			.1416	.1082	-.3168	-.0309	-.0609				
150.000	-.0872	.0082	.1044	.1304	-.0328	.0313	-.1308				
165.000	-.0438		.1163		.0743	.0933	-.1393				
180.000	-.0316	.0085	.1299	.2812							



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ARC11-716 1A14 Q1-712-SIDES-A1710 CRB. PURCHASE

0010331

ALPHAOX 91 = 5.000 SETAO (3) = -6.000

SECTION (1) ORBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.7500	.7010	.0230	.0000	.0000	.0000	.0000	1.0000	1.0000	1.0000	1.0000
PH1												
180.000	-3.4021	-0.0070	0.0000	0.1170	-0.2148	-0.2317	-0.1708	-0.1674				
170.000					0.2598	0.1470	-0.2702	-0.0197	-0.0948			
160.000	-0.0008	0.0007	0.0004	0.1073	-0.0129	0.0442	-0.1425					
150.000	-0.0037				0.1123	0.0708	-0.1640					
140.000	-0.0044	0.0017	0.0006	0.0976								

ALPHAOX 91 = 5.000 SETAO (4) = -4.010

SECTION (1) ORBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1125	.1990	.1070	.1705	.2050	.2000	.3010	.3700	.4090	.5700
PH1															
180.000	1.3700	0.0002	0.0000	0.0008	0.0008	0.0000	0.0000	-0.0029	-0.2029	-0.2108	0.0307	0.0310	-0.0314	0.0292	0.1437
170.000					0.4703	0.2000	0.0003	-0.1231	-0.3912	-0.2790					
160.000					0.7729	0.3750	0.0004	0.0004	-0.1001	-0.3009	-0.1531	-0.0011	0.0321	-0.0049	0.1921
150.000					0.7008	0.4700	0.0000	0.1900	-0.0067	-0.1421					
140.000					0.7991	0.4754	0.1700	0.0314	-0.0022	-0.0022	-0.3700	-0.1974	-0.0906	-0.1443	
130.000		0.0700	0.0702	0.0506	0.2003	0.1975	0.0906	0.0906	0.0907	0.0907	-0.3022	-0.3542	-0.1197	-0.1536	
120.000			0.3710	0.3304	0.2226	0.2003	0.0003	0.0003	0.0336	-0.2700	-0.5002	-0.5002	-0.3405	-0.2797	
110.000															
100.000					0.0333	0.2973	0.2101	0.2145	0.9530	-0.2609	-0.5705	-0.5108	-0.3475	-0.2206	
90.000															
80.000								0.0301							
70.000									0.0096						
60.000										-0.4326	-0.5210	-0.4459	-0.3400	-0.1021	
50.000															
40.000															
30.000															
20.000															
10.000															

W/LB	.0000	.7500	.7010	.0230	.0000	.0000	.0000	.0000	1.0000	1.0000	1.0000	1.0000
PH1												
180.000	0.2009	0.0071	0.0004	0.0009	-0.3018	-0.3175	-0.2009					
170.000					0.0027	0.0002	-0.2702	-0.3300	-0.2003			
160.000	-0.0702	-0.0701	-0.0004	-0.1413	-0.0408	-0.1254	-0.1136					
150.000	-0.0976	-0.1004	-0.0006	-0.0111	-0.1070	-0.1000	-0.1770					
140.000					-0.0071	-0.0045	-0.2003	-0.2175	-0.2004			
130.000												
120.000					0.1447	0.2770	-0.2346	-0.2003	-0.1640			
110.000					0.0023	0.1000	-0.2367	-0.0207	-0.1103			
100.000					-0.0070	0.0000	0.2316	-0.0367	-0.0000	-0.1675		
90.000					-0.0142	0.2904	0.0002	0.0120	-0.1971			
80.000					0.0000	0.0010	0.0177	0.2414				

ARC11-716 1A14 Q1-T10-210-2-AT10 CRB. PUBLJAGE (801833)

ALPHAO1 91 = 0.010 BETAO (91) = -2.000

SECTION (1)		DEPONENT VARIABLE CP													
W/L	0.000	0.000	0.020	0.040	0.070	0.100	0.120	0.150	0.170	0.200	0.250	0.300	0.370	0.400	0.500
PM1															
000	1.2000	0.790	2016	1.737	3701	0.000		-1.1751		-0.2192	-0.0337	0.4000	-0.0000	0.0134	0.1103
20.000		3007	0.033	3140	-1.402			-3149		-2040					
40.000		0000	0.000	0.000	0.000			-2053							
60.000		0000	0.000	0.000	0.000			-0.0000							
80.000		0000	0.000	0.000	0.000			-0.0000							
100.000		0000	0.000	0.000	0.000			-0.0000							
120.000		0000	0.000	0.000	0.000			-0.0000							
140.000		0000	0.000	0.000	0.000			-0.0000							
160.000		0000	0.000	0.000	0.000			-0.0000							
180.000		0000	0.000	0.000	0.000			-0.0000							
200.000		0000	0.000	0.000	0.000			-0.0000							
W/L <td>0.000</td> <td>0.000</td> <td>0.020</td> <td>0.040</td> <td>0.070</td> <td>0.100</td> <td>0.120</td> <td>0.150</td> <td>0.170</td> <td>0.200</td> <td>0.250</td> <td>0.300</td> <td>0.370</td> <td>0.400</td> <td>0.500</td>	0.000	0.000	0.020	0.040	0.070	0.100	0.120	0.150	0.170	0.200	0.250	0.300	0.370	0.400	0.500

ALPHAO1 91 = 0.000 BETAO (91) = .000

SECTION (1)		DEPONENT VARIABLE CP													
W/L	0.000	0.000	0.020	0.040	0.070	0.100	0.120	0.150	0.170	0.200	0.250	0.300	0.370	0.400	0.500
PM1															
000	1.2000	0.790	2016	1.737	3701	0.000		-1.1751		-0.2192	-0.0337	0.4000	-0.0000	0.0134	0.1103
20.000		3007	0.033	3140	-1.402			-3149		-2040					
40.000		0000	0.000	0.000	0.000			-2053							
60.000		0000	0.000	0.000	0.000			-0.0000							
80.000		0000	0.000	0.000	0.000			-0.0000							
100.000		0000	0.000	0.000	0.000			-0.0000							
120.000		0000	0.000	0.000	0.000			-0.0000							
140.000		0000	0.000	0.000	0.000			-0.0000							
160.000		0000	0.000	0.000	0.000			-0.0000							
180.000		0000	0.000	0.000	0.000			-0.0000							
200.000		0000	0.000	0.000	0.000			-0.0000							
W/L <td>0.000</td> <td>0.000</td> <td>0.020</td> <td>0.040</td> <td>0.070</td> <td>0.100</td> <td>0.120</td> <td>0.150</td> <td>0.170</td> <td>0.200</td> <td>0.250</td> <td>0.300</td> <td>0.370</td> <td>0.400</td> <td>0.500</td>	0.000	0.000	0.020	0.040	0.070	0.100	0.120	0.150	0.170	0.200	0.250	0.300	0.370	0.400	0.500



ARC11-716 1A14 01-T12-S12E5-AT10 ORB. FUSELAGE (R51833)

ALPHA(X 6) = 6.020 BETA(O 6) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
120.000			.4925	.2801	.1830	.1492		.3354		-.0917	-.3894	-.5704	-.2633	-.2020	
140.000										-.1754					
150.000			.4207	.2590	.2071	.1759				-.3663	-.5834	-.4732	-.3487	-.1104	
151.000								.4609							
156.000															
162.000								.7877							
165.000															
169.000															
174.000							.6936	.6714							
180.000	1.3870	.6236	.3681	.2972	.2330	.1777		.8335		-.5878	-.5596	-.3669	-.7341	-.0738	
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.2240	.2725	.3447	.2204	-.2183	-.2759	-.2538								
40.000	.2199	.2261	.3624	.0443	-.2571	-.2848	-.2487			-.2452	-.2376				
70.000	-.0716	-.2264	-.2721	-.1109	-.0789	-.1473	-.1486			-.2169	-.2086				
90.000	-.0287	-.1484	-.1409	-.0564	-.1751	-.1892	-.1861								
105.000			.0462	-.0442	-.2330	-.2170	-.2013								
110.000															
120.000	-.0852	-.0503	.1150	.1872	-.2710	-.2416	-.2010								
135.000			.2937	.2947	-.2041	-.1563	-.2015								
150.000	.0103	.0864	.3301	.3270	-.0802	-.1253	-.2515								
165.000	.0106		.3010	.0442	-.1187	-.2424									
180.000	.0111	.1116	.3010	.3953											

ALPHA(X 9) = 6.010 BETA(O 7) = 2.030

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.3870	.6225	.3761	.2049	.2837	.0000		-.1536		-.1925	-.0436	.0234	-.0014	.0147	.1165
20.000			.3382	.2031	.2357	-.2774		-.2916		-.2667					
40.000			.5413	.2237	.2102	-.0304		-.2375		-.2399	-.0604	-.0337	-.0526	.0173	.1300
55.000			.4775	.2324	.1839	.0078		-.1554		-.2327					
70.000			.4665	.2423	.1544	.0475		-.1347		-.1126	-.4683	-.2763	-.1824	-.1562	
90.000	.9631	.4707	.2592	.1049	.0484			-.0030		-.1095	-.4337	-.4982	-.2295	-.1442	
120.000			.4445	.2433	.1541	.1062		-.2849		-.1329	-.4363	-.6048	-.2623	-.1547	
140.000										-.2571					
150.000			.4010	.2904	.1933	.1364				-.4203	-.3682	-.4883	-.3626	-.0865	
151.000															
156.000								.7383							
162.000															

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ARC11-716 1A14 ORBITER FUSELAGE (R21833)

ALPHAO (9) = 0.010 BETA0 (7) = 2.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	0.000	0.080	0.230	0.470	0.700	1.120	1.590	1.670	1.760	2.030	2.320	3.010	3.790	4.990	5.780
PHI															
165.000															
168.000															
174.000															
180.000	1.3670	0.6075	3.9001	3.1035	2.3175	1.8229	0.9420	0.6066							
X/LB	0.6330	0.7300	0.7610	0.8230	0.8620	0.9230	0.9630	1.0020	1.0210	1.0460					
PHI															
0.000	0.2191	0.2663	0.2774	0.1851	-0.2248	-0.2855	-0.2639								
40.000	1.9400	2.4517	2.5001	-0.0542	-0.2377	-0.2779	-0.2626								
70.000	-0.0663	-0.2161	-0.2622	-0.0866	-0.0517	-0.1639	-0.1733								
80.000	-0.0249	-0.1412	-0.0664	-0.0463	-0.1772	-0.1966	-0.2007								
105.000			0.0721	-0.0732	-0.2306	-0.2168	-0.2144								
110.000															
120.000	-0.0001	-0.0269	0.1190	0.1290	-0.2939	-0.2621	-0.2244								
135.000			0.6879	3.0306	-0.2210	-0.1833	-0.2462								
150.000	0.0292	0.0947	0.3823	0.3129	-0.0910	-0.1719	-0.2922								
165.000	0.0175	0.0975	0.2975	0.0116	-0.1801	-0.2371									
180.000	0.0072	0.1174	0.2759	0.3772											

ALPHAO (9) = 5.980 BETA0 (8) = 4.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	0.000	0.080	0.230	0.470	0.700	1.120	1.590	1.670	1.760	2.030	2.320	3.010	3.790	4.990	5.780
PHI															
20.000															
40.000															
55.000															
70.000															
90.000			0.4471	0.4006	0.1827	0.0663	0.0035								
120.000			0.0224	0.2096	0.1224	0.0717	0.2316								
140.000															
150.000			0.3757	0.2798	0.1612	0.1134	0.3647								
151.000															
156.000															
165.000															
169.000															
174.000															
180.000	1.3460	0.3691	3.9442	3.0227	2.2272	1.7398	0.9115	0.7964							
X/LB	0.6630	0.7308	0.7610	0.8230	0.8620	0.9230	0.9630	1.0020	1.0210	1.0460					
PHI															
20.000															
40.000															
55.000															
70.000															
90.000			0.4471	0.4006	0.1827	0.0663	0.0035								
120.000			0.0224	0.2096	0.1224	0.0717	0.2316								
140.000															
150.000			0.3757	0.2798	0.1612	0.1134	0.3647								
151.000															
156.000															
165.000															
169.000															
174.000															
180.000	1.3460	0.3691	3.9442	3.0227	2.2272	1.7398	0.9115	0.7964							



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ARC11-716 1A14 ORBITERS+AT10 CRB. FUSELAGE (MC1033)

ALPHAO (9) = 5.960 BETA0 (8) = 4.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

N/LB	.6550	.7500	.7610	.8250	.8620	.9250	.9650	1.0020	1.0210	1.0480
PHI										
.000	.1960	.2368	.2446	.1687	-.2061	-.2817	-.2744		-.2350	-.2047
40.000	.1612	.2047	.2275	-.1954	-.3662	-.3225	-.2459		-.2243	-.2236
70.000	-.0753	-.2207	-.2331	-.0787	-.0689	-.1415	-.1483			
90.000	-.0277	-.1481	-.0966	-.0490	-.1236	-.1572	-.1690			
105.000		.0543	-.0542	-.2331	-.1800	-.1967				
110.000						-.2476				
120.000	.0138	-.0212	.1656	.0680	-.2896	-.2543	-.2156		-.2491	
135.000		.4727	.2805	-.1936	-.2043	-.2690				
150.000	.0267	.0910	.3139	.3132	-.1028	-.1870	-.3121			
165.000	.0087		.2686		-.0144	-.1792	-.2499			
180.000	.0087	.1031	.2346	.3355						

ALPHAO (9) = 5.960 BETA0 (9) = 6.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

N/LB	.0000	.0090	.0250	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3220	.6823	.1223	.1541	.1923	.0000		-.2032	-.2315	-.2815	-.0999	-.0065	-.0509	-.0313	.0685
20.000		.1360	.1764	.2187	.4232			-.2690	-.2690	-.2670	-.0747	-.0681	-.0630	.0102	.0957
40.000		.3400	.1659	.1574	-.1440			-.2126	-.2027	-.2723	-.1768	-.3160	-.3171	-.2446	-.1195
55.000		.2856	.1403	.1018	-.0966			-.0643	-.2027	-.1768	-.4983	-.3282	-.2639	-.1015	
70.000		.3120	.1119	.0666	-.0376			-.1910	-.0643	-.1969	-.4983	-.3282	-.2639	-.1015	
90.000		.2923	.2781	.1134	.0169	-.0311		-.4180	-.1910	-.2381	-.9083	-.6793	-.2642	-.1136	
120.000		.3379	.1571	.0743	.0304			-.4733	-.9514	-.4274	-.4078	-.0999			
140.000		.3226	.2216	.1302	.0692			.2684							
150.000						.6122									
156.000															
162.000															
165.000															
169.000						.7986									
174.000															
180.000	1.3220	.5362	.3229	.2700	.1991	.1903									
N/LB	.6550	.7500	.7610	.8250	.8620	.9250	.9650	1.0020	1.0210	1.0480					

N/LB	.6550	.7500	.7610	.8250	.8620	.9250	.9650	1.0020	1.0210	1.0480
PHI										
.000	.1688	.2175	.2060	.2663	-.2965	-.3082	-.2879		-.2420	-.2075
40.000	.1431	.1894	.2296	-.2200	-.3756	-.3679	-.2822		-.2425	-.2475
70.000	-.0682	-.1990	-.2390	.0436	-.1127	-.1812	-.1786			
90.000	-.0132	-.1366	-.0766	-.0230	-.1423	-.2034	-.2176			
105.000		.0910	-.0491	-.1953	-.2267	-.2453				
110.000						-.2684				

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TABULATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 ORBITER FUSELAGE

ALPHAO(9) = 5.900 BETAO(9) = 6.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460
PHI										
120.000	.0208	-.0062	.2900	.0458	-.3151	-.2220	-.2663	-.2654		
135.000		.4505	.2674	-.2510	-.2663	-.3169				
150.000	.0193	.0875	.2827	-.1050	-.2331	-.3333				
165.000	.0100	.2320		-.0450	-.2161	-.2596				
180.000	-.0075	.0966	.2146	.2905						

ALPHAO(9) = 5.970 BETAO(10) = 6.160

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.2030	.2320	.3010	.3790	.4990	.5760
PHI														
.000	1.2620	.6403	.0836	.0575	.1575	.0000		-.1945	-.1682	-.1614	-.0247	-.0121	-.0796	.0464
20.000		.0399	.1262	.1690	-.5325			-.2287	-.2539	-.2913	-.1100	-.1116	-.1154	.0013
40.000		.1761	.1225	.1366	-.2366			-.2666	-.2623	-.2623				.0606
60.000		.1734	.0850	.0818	-.1547			-.2174	-.1982	-.5346	-.3905	-.2701	-.0250	
80.000		.2162	.0575	.0163	-.0844			-.2360	-.2457	-.5266	-.5342	-.2374	-.0061	
90.000	.1507	.1906	.0580	-.0263	-.0336			-.0592	-.2695	-.5320	-.7016	-.2767	-.0631	
120.000		.2691	.1072	.0172	-.0105			-.1166	-.4663	-.6034	-.4296	-.4371	-.0973	
140.000		.2603	.1968	.1022	.0475			-.2133	-.4939	-.6034	-.4296	-.4371	-.0973	
150.000								.5513	-.3057	-.5709	-.4325	-.3672	-.1445	
151.000								.3966						
156.000								.7149						
162.000								.6150						
165.000														
169.000														
174.000	1.2620	.4759	.3033	.2372	.1690	.1204		.8877	-.5360	-.5475	-.4469	-.3716	-.2666	
180.000	.6930	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460				

X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.000	.1462	.1966	.2557	.2548	-.3313	-.3131	-.2934		-.2922	-.2160
40.000	.1450	.1970	.2566	-.2662	-.3656	-.3675	-.3034		-.2377	-.2644
70.000	-.0610	-.2090	-.2399	.0700	-.1264	-.1923	-.2061			
90.000	-.0363	-.1531	-.1016	.0316	-.1603	-.2321	-.2362			
105.000		.0341	-.0303	-.2007	-.2369	-.2750				
110.000										
120.000	.0116	-.0264	.3275	-.0110	-.3325	-.2451	-.3092			
135.000		.4539	.2716	-.2967	-.3367	-.3716				
150.000	-.0695	.0055	.2153	.1839	-.1266	-.2637	-.4017			
165.000	-.0214	.1543		-.1066	-.2610	-.2691				
180.000	-.0162	.0405	.1491	.2747						



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(881833)

ARC11-716 1A14 01-112-S1225-AT10 CRB. FUSELAGE

ALPHA(0) = 5.920 BETA(11) = 10.160

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.3760
PHI	.0000	1.1750	.6407	.1049	-.1077	.0175	.0000	-.2045	-.2359	-.1061	.0067	-.0999	-.0871	.0106	
20.000				-.0206	-.0604	.2724	-.9934	-.2746	-.1941						
40.000				.0266	.0486	.1499	-.3666	-.3017	-.2266	-.1131	-.1371	-.1791	-.0425	.0650	
55.000				-.0429	.0326	.0424	-.2186	-.2419	-.2587						
70.000				.0331	-.0079	-.0146	-.1235	-.2693	-.2219	-.3034	-.3131	-.2676	-.0753		
90.000				.0516	.0596	-.0064	-.0628	-.1405	-.2838	-.5402	-.4045	-.2292	-.0602		
120.000				.1286	.0377	-.0615	-.0464	.0432	-.3325	-.5477	-.7066	-.2540	-.0985		
140.000				.0996	.1336	.0456	-.0102		-.5041	-.6207	-.4199	-.4287	-.1351		
150.000								.1337	-.5165	-.6207	-.4199	-.4287	-.1351		
156.000								.3093							
162.000								.3221	-.5817	-.5416	-.4478	-.3787	-.1615		
165.000								.6677							
169.000								.7447	-.5472	-.5639	-.4599	-.3677	-.3343		
174.000								.6044							
180.000															
Y/LB	.6550	.7500	.7810	.8230	.8620	.9230	.9650	1.0020	1.0210	1.0480					

PHI

.000	.1076	.1522	.2068	.2683	-.3755	-.3161	-.3055	-.2569	-.2118						
40.000	.1291	.1792	.2454	-.2966	-.4078	-.4036	-.3036	-.2825	-.2512						
70.000	-.0991	-.2184	-.2541	.0563	-.1478	-.2203	-.2287								
90.000	-.0611	-.1609	-.1396	.0285	-.1613	-.2335	-.2606								
105.000				.0096	-.0532	-.2344	-.3193	-.2773							
110.000				.2931	-.0516	-.3334	-.2860	-.3441	-.2683						
120.000	-.0467	-.0876	.3775	.1931	-.3575	-.4172	-.4332								
135.000	-.0593	-.0760	.1265	.0665	-.2077	-.3541	-.4444								
150.000	-.0471	.0990		-.1978	-.3554	-.2553									
165.000	-.0515	-.0265	.0862	.2128											

ALPHA(10) = 7.910 BETA(1) = -10.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.3760
PHI	.0000	1.2500	.6603	.4042	.1685	.3808	.0000	-.3400	-.2494	.1332	-.0694	.0535	.1033	.1931	
20.000				.5745	.3069	.3229	-.0116	-.3650	-.3655						
40.000				.9420	.5065	.3666	-.1633	-.1432	-.1842	-.1025	.0227	.0777	.0643	.2917	
55.000				.9742	.6003	.5076	.2632	.0794	-.0794						
70.000				.9435	.6756	.4736	.2835	.1704	.1130	-.2061	.0404	.0902	-.0361		
90.000				1.0870	.8433	.6193	.4096	.2034	.1868	-.1534	-.0382	-.0153	-.0707		

ARC11-716 1A14 CR+T12+S12MS+AT10 CRG. FUSELAGE (R81633)

ALPHA(10) = 7.910 BETA(1) = -10.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0060	.0250	.0470	.0700	.1120	.1790	.1970	.1760	.2030	.2520	.5010	.3790	.4990	.5760
PHI															
120.000															
140.000															
150.000															
171.000															
194.000															
162.000															
165.000															
169.000															
174.000															
190.000															

Y/LB .0000 .7500 .7610 .8250 .8620 .9250 .9630 1.0020 1.0210 1.0480

PHI

.000	.2883	.3487	.4000	.5225	-.5222	-.3364	-.2931								
40.500	.3756	.5072	.6901	.3643	-.3263	-.3934	-.3499								
70.000	-.0163	-.2463	-.3898	-.3812	-.1427	-.0636	-.0969								
90.000	-.0582	-.2094	-.3103	-.0696	-.1556	-.2035	-.1612								
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
190.000															

ALPHA(10) = 7.930 BETA(2) = -8.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0060	.0250	.0470	.0700	.1120	.1790	.1970	.1760	.2030	.2520	.5010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
190.000															

.0140
.0004



ARC11-716 1A14 OL-T12-S12ES-AT10 ORG. FUSELAGE (081833)

ALPHA(X100) = 7.930 BETA(O (Z)) = -0.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/L/S	.0000	.0000	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2300	.3010	.3790	.4990	.5760
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PHI	165.000														
100.000															
174.000															
100.000	1.2680	.9017	.2414	.1041	.1292	.1103	.9391	.6554							
W/L/S	.0000	.7500	.7810	.8230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
100.000															
110.000															
120.000															
130.000															
140.000															
150.000															
160.000															
170.000															
180.000															
PHI	105.000														
100.000															
110.000															
120.000															
130.000															
140.000															
150.000															
160.000															
170.000															
180.000															

PHI	105.000														
100.000															
110.000															
120.000															
130.000															
140.000															
150.000															
160.000															
170.000															
180.000															
PHI	105.000														
100.000															
110.000															
120.000															
130.000															
140.000															
150.000															
160.000															
170.000															
180.000															

ALPHA(X100) = 7.910 BETA(O (Z)) = -5.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/L/S	.0000	.0000	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2300	.3010	.3790	.4990	.5760
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PHI	.0000	1.3160	.9303	.4121	.2163	.3823	.0000								
100.000															
110.000															
120.000															
130.000															
140.000															
150.000															
160.000															
170.000															
180.000															
PHI															
100.000															
110.000															
120.000															
130.000															
140.000															
150.000															
160.000															
170.000															
180.000															
PHI	105.000														
100.000															
110.000															
120.000															
130.000															
140.000															
150.000															
160.000															
170.000															
180.000															

ORIGINAL PAGE IS
QUALITY

(R81833)

ARC11-716 1A14 CONDITIONS-RATIO ORG. FUEL/AGE

ALPHA(10) = 7.910 BETA(3) = -9.970

SECTION (1) ORBITER FUEL/AGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.2890	.3982	.4176	.4347	-.4282	-.3395	-.2748			
20.000	.3346	.4619	.6416	.2963	-.2966	-.3466	-.3025			
40.000	-.0726	-.2704	-.3434	-.2131	-.1213	-.1170	-.1277			
60.000	-.0679	-.2245	-.3272	-.0515	-.1909	-.1744	-.1817			
80.000		-.0412	-.0291	-.2016	-.2822	-.2039				
100.000										-.2153
120.000	-.4301	-.2217	.0760	.3161	-.2342	-.2542	-.2179			-.1848
135.000			.1371	.1363	-.2819	-.0491	-.1206			
150.000	-.0227	.0123	.1480	.1976	-.0344	-.0366	-.2365			
165.000	-.0140		.1436	.0901	.0716	-.1649				
180.000	.0056	.0402	.1683	.3449						

ALPHA(10) = 7.630 BETA(4) = -4.000

SECTION (1) ORBITER FUEL/AGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1580	.1670	.1780	.2030	.2220	.3010	.3780	.4990	.5760
PHI															
.000	1.3660	.9079	.3485	.1772	.3760	.0000									
20.000		.4743	2.469	.3267	-.1185										
40.000		.7916	.3601	.3179	.0335										
60.000		.7919	.4761	.3442	.1334										
80.000		.7236	.4630	.2966	.1344										
100.000		.6468	.6968	.4402	.2464	.1647									
120.000		.5408	.2681	.1694	.1670										
140.000		.3934	.2537	.1716	.1981										
160.000															
180.000															
200.000															
220.000															
240.000															
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															
520.000															
540.000															
560.000															
580.000															
600.000															
620.000															
640.000															
660.000															
680.000															
700.000															
720.000															
740.000															
760.000															
780.000															
800.000															
820.000															
840.000															
860.000															
880.000															
900.000															
920.000															
940.000															
960.000															
980.000															
1000.000															

ALPHA(10) = 7.630 BETA(4) = -4.000

SECTION (1) ORBITER FUEL/AGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.2718	.3353	.3600	.4003	-.3337	-.3162	-.2641			
20.000	.3084	.4294	.2624	.2354	-.2769	-.3263	-.2913			
40.000	-.0849	-.2691	-.3237	-.1831	-.0870	-.1292	-.1406			
60.000	-.0768	-.2008	-.2797	-.0366	-.1668	-.1660	-.1636			
80.000		-.0342	-.0329	-.2149	-.2900	-.2076				
100.000										-.2193



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ARC11-716 1A14 01-112-512K5-AT10 CRG. PURLAGE

(R81833)

ALPHA(10) = 7.830 BETA(4) = -4.000

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

W/LB	.6980	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PWT										
120.000	-.2174	-.1737	.1099	.2745	-.2464	-.2465	-.2275	-.1945		
135.000	.1961	.1636	-.2367	-.0672	-.1408					
150.000	-.0881	.0384	.1886	-.2342	-.0344	-.2345				
165.000	-.0026		.1864	.0995	.0048	-.1990				
180.000	.0197	.0486	.2391	.3634						

ALPHA(10) = 7.830 BETA(5) = -2.030

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

W/LB	.6980	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PWT										
120.000	1.3910	.8782	.2992	.1905	.3108	.0000		-.1751	-.2007	.0039
135.000		.3810	.2692	.2680	-.1363			-.3193	-.2131	.0428
150.000		.7007	.2007	.2017	.0715			-.2150	-.3023	.0003
165.000		.0902	.3970	.2793	.0933			-.2097	-.0003	.0023
180.000		.6476	.3916	.2411	.1182			-.0622	-.4100	-.1477
195.000		.7727	.3970	.3789	.1302			-.0721	-.0622	-.0061
210.000		.2106	.2663	.1999	.1432			-.0035	.0120	-.3630
225.000		.3967	.2646	.1812	.1607			-.0438	-.0438	-.3314
240.000								-.1137	-.1137	-.3962
255.000								-.3546	-.3546	-.3193
270.000								.2063		-.3337
285.000								.5316		-.3193
300.000									-.4406	-.3768
315.000										-.4723
330.000										-.3686
345.000										-.0990
360.000										
375.000										
390.000										
405.000										
420.000										
435.000										
450.000										
465.000										
480.000										
495.000										
510.000										
525.000										
540.000										
555.000										
570.000										
585.000										
600.000										

ALPHA(10) = 7.830 BETA(6) = -2.030

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

W/LB	.6980	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PWT										
120.000	.2598	.2917	.3426	.3469	-.2837	-.2939	-.2326		-.2496	-.2371
135.000	.2391	.3737	.9226	.1731	-.2706	-.3025	-.2328		-.2173	-.2076
150.000	-.0988	-.2485	-.3030	-.1822	-.0948	-.1463	-.1437			
165.000	-.0791	-.1799	-.2253	-.0081	-.1947	-.1953	-.1976			
180.000		-.0027	-.0409	-.2291	-.2084	-.2127				
195.000		-.1123	-.0886	.1026	-.2370	-.2395	-.2369			
210.000		.1737	.2546	-.1980	-.1039	-.1781				
225.000		-.0844	.0821	.2173	.2836	-.1000	-.2473			
240.000		.0136	.2494	.0633	-.0799	-.2432				
255.000		.0582	.2776	.4115						

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MRC11-716 1A14 01-712-312MS-AT10 CRB. PUSBLAGE

ALPHAX101 = 7.840 BETA10 (6) = .040

SECTION (1) 3BITTER PUSBLAGE DEFONOT VARIABLE CP

Y/L/S	.0000	.0080	.0230	.0470	.0700	.1120	.1500	.1670	.1760	.2030	.2320	.3010	.3700	.4990	.5760
PH1															
.000	1.3660	.6687	.8096	1.063	.2590	.0000		-.1470		-.1967	-.0281	.0344	.0282	.0532	.1421
20.000								-.3143		-.2474					
40.000								-.2236		-.2072	.0094	-.0103	-.0386	.0286	.1546
99.000								-.1148		-.2459					
70.000								-.1181		-.0970	-.4447	-.1080	-.1424	-.1930	
90.000								-.0242		-.0499	-.4030	-.4215	-.1770	-.1769	
100.000								-.3244		-.0932	-.3930	-.5706	-.3325	-.2371	
140.000										-.1739					
190.000										-.4010	-.8065	-.4909	-.3366	-.0979	
191.000								.7472							
196.000															
182.000															
189.000															
174.000															
160.000															
Y/L/S	1.3660	.9091	.3263	.2648	.2038	.1420	.0400	.0015	.7472	-.4445	-.3739	-.4470	-.3727	-.0616	
	.6680	.7300	.7610	.8230	.8620	.9230	.9680	1.0000	1.0250	1.0400					

ALPHAX101 = 7.830 BETA10 (7) = 2.040

SECTION (1) 3BITTER PUSBLAGE DEFONOT VARIABLE CP

Y/L/S	.0000	.0080	.0230	.0470	.0700	.1120	.1500	.1670	.1760	.2030	.2320	.3010	.3700	.4990	.5760
PH1															
.000	1.3660	.6302	.2340	.2029	.2647	.0000		-.1437		-.1613	-.0330	.0343	.0282	.0440	.1343
20.000								-.2961		-.2476					
40.000								-.2473		-.2420	.0297	-.0181	-.0228	.0429	.1436
99.000								-.1296		-.2675					
70.000								-.1296		-.1290	-.4083	-.2177	-.1693	-.1933	
90.000								-.1296		-.1290	-.4083	-.2177	-.1693	-.1933	
100.000								-.0373		-.1027	-.4336	-.4779	-.2063	-.1626	
140.000															
190.000															
191.000															
196.000															
182.000															
189.000															
174.000															
160.000															
Y/L/S	1.3660	.6302	.2340	.2029	.2647	.0000	.0400	.0015	.7472	-.4445	-.3739	-.4470	-.3727	-.0616	
	.6680	.7300	.7610	.8230	.8620	.9230	.9680	1.0000	1.0250	1.0400					

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ARC11-716 IAI4 OR-TIE-SIDE-WATTIO ORB. PURCHASE (0181833)

ALPHACON108 = 7.070 SETAO (0) = 2.040

SECTION (1) XOMITER PURCHASE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1390	.1670	.1790	.2050	.2320	.3010	.3790	.4690	.5760
PWT															
120.000			.4206	.2248	.1323	.0870		.2735		-.1329	-.4446	-.9999	-.3008	-.1746	
140.000										-.2300					
150.000			.3723	.2397	.1709	.1096		.4340		-.4344	-.0075	-.9011	-.3682	-.0782	
170.000								.7409							
190.000								.4694							
192.000										-.4454	-.3637	-.4174	-.3643	-.0737	
196.000															
198.000															
199.000															
199.000															
199.000															
X/LB	.0000	.7800	.7810	.0200	.0620	.0620	.9600	1.0020	1.0210	1.0490					

PWT															
.000			.2242	.2717	.2607	.1972	-.2234	-.2743	-.2382						
40.000			.2043	.2261	.3000	-.0307	-.2500	-.2980	-.2336						
70.000			-.0791	-.2797	-.2635	-.1320	-.0887	-.1716	-.1874						
90.000			-.0384	-.1793	-.1190	-.0696	-.2236	-.2103	-.2109						
109.000					.0312	-.1023	-.2340	-.2481	-.2236						
110.000									-.2393						
120.000			-.0295	-.0426	.0728	.1502	-.2938	-.2711	-.2690						
138.000						.4243	.2937	-.2181	-.1903	-.2595					
150.000			.0296	.0679	.3437	.3229	-.1815	-.1840	-.3005						
160.000			.0229	.2960		.0030	-.1768	-.2643							
190.000			.0117	.0905	.2731	.3987									

ALPHACON108 = 7.070 SETAO (0) = 4.080

SECTION (1) XOMITER PURCHASE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1390	.1670	.1790	.2050	.2320	.3010	.3790	.4690	.5760
PWT															
.000			.1398	.2212	.2459	.0000		-.1680		-.1997	-.0482	.0229	.0169	.0296	.1109
20.000			.2091	.2002	.2230	-.3216		-.2773		-.2733					
40.000			.4701	.2097	.1791	-.0704		-.2950		-.2900	.0102	-.0278	-.0202	.0434	.1290
70.000			.3923	.2008	.1475	-.0300		-.2042		-.2939					
90.000			.4028	.1820	.1091	-.0769		-.1919		-.1923	-.0730	-.2482	-.1693	-.1332	
90.000			.3975	.1825	.0997	-.0199		-.0683		-.1471	-.4982	-.4532	-.2303	-.1382	
120.000			.3823	.1877	.1032	.0470		.2469		-.1892	-.4817	-.0233	-.2664	-.1268	
140.000										-.3472					
150.000			.3477	.2430	.1391	.0810				-.4913	-.6003	-.4773	-.3978	-.0643	
170.000															
190.000															
192.000															
X/LB	.0000 <td>.0000 <td>.0200 <td>.0470 <td>.0700 <td>.1120 <td>.1390 <td>.1670 <td>.1790 <td>.2050 <td>.2320 <td>.3010 <td>.3790 <td>.4690 <td>.5760 </td></td></td></td></td></td></td></td></td></td></td></td></td></td>	.0000 <td>.0200 <td>.0470 <td>.0700 <td>.1120 <td>.1390 <td>.1670 <td>.1790 <td>.2050 <td>.2320 <td>.3010 <td>.3790 <td>.4690 <td>.5760 </td></td></td></td></td></td></td></td></td></td></td></td></td>	.0200 <td>.0470 <td>.0700 <td>.1120 <td>.1390 <td>.1670 <td>.1790 <td>.2050 <td>.2320 <td>.3010 <td>.3790 <td>.4690 <td>.5760 </td></td></td></td></td></td></td></td></td></td></td></td>	.0470 <td>.0700 <td>.1120 <td>.1390 <td>.1670 <td>.1790 <td>.2050 <td>.2320 <td>.3010 <td>.3790 <td>.4690 <td>.5760 </td></td></td></td></td></td></td></td></td></td></td>	.0700 <td>.1120 <td>.1390 <td>.1670 <td>.1790 <td>.2050 <td>.2320 <td>.3010 <td>.3790 <td>.4690 <td>.5760 </td></td></td></td></td></td></td></td></td></td>	.1120 <td>.1390 <td>.1670 <td>.1790 <td>.2050 <td>.2320 <td>.3010 <td>.3790 <td>.4690 <td>.5760 </td></td></td></td></td></td></td></td></td>	.1390 <td>.1670 <td>.1790 <td>.2050 <td>.2320 <td>.3010 <td>.3790 <td>.4690 <td>.5760 </td></td></td></td></td></td></td></td>	.1670 <td>.1790 <td>.2050 <td>.2320 <td>.3010 <td>.3790 <td>.4690 <td>.5760 </td></td></td></td></td></td></td>	.1790 <td>.2050 <td>.2320 <td>.3010 <td>.3790 <td>.4690 <td>.5760 </td></td></td></td></td></td>	.2050 <td>.2320 <td>.3010 <td>.3790 <td>.4690 <td>.5760 </td></td></td></td></td>	.2320 <td>.3010 <td>.3790 <td>.4690 <td>.5760 </td></td></td></td>	.3010 <td>.3790 <td>.4690 <td>.5760 </td></td></td>	.3790 <td>.4690 <td>.5760 </td></td>	.4690 <td>.5760 </td>	.5760

ORIGINAL PAGE IS OF POOR QUALITY

081833)

ARC11-716 1A14 CR112-912MS-AT10 CR9. PUSBLAGE

ALPHAX(10) = 7.070 BETA0 (9) = 4.000

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

PHI	.000	.0000	.0000	.0470	.0700	.1100	.1500	.1670	.1700	.2030	.2010	.3790	.4990	.5700
100.000														
100.000														
170.000														
100.000	1.3000	1.4000	1.4000	1.4000	1.3000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
PHI	.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.000														
70.000														
90.000														
100.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
110.000														
120.000														
130.000														
140.000														
150.000														
160.000														
170.000														
180.000														
PHI	.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.000														
70.000														
90.000														
100.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
110.000														
120.000														
130.000														
140.000														
150.000														
160.000														
170.000														
180.000														

ALPHAX(10) = 7.070 BETA0 (9) = 6.100

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

PHI	.000	.0000	.0000	.0470	.0700	.1100	.1500	.1670	.1700	.2030	.2010	.3790	.4990	.5700
100.000														
100.000														
170.000														
100.000	1.3100	1.4000	1.4000	1.4000	1.3000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
PHI	.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.000														
70.000														
90.000														
100.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
110.000														
120.000														
130.000														
140.000														
150.000														
160.000														
170.000														
180.000														



DATE 09 DEC 74

TABULATED PRESSURE DATA - 1A14A - W2.. 3

MD18331

MRC11-716 1A14 OR-716-SIDESWAT16 CRG. PURCHASE

ALPHA(X)101 = 7.960 BETA(D) (18) = 0.110

SECTION (1) ORBITER PURCHASE DEFECTOR VARIABLE CP

W/L	0.950	.7500	.7610	.6230	.6620	.9670	.9630	1.0020	1.0210	1.0490
PMT										
120.000	.0605	-.0008	.2202	-.0009	-.3346	-.2377	-.3227	-.3175		
135.000			.2644	.2737	-.3074	-.3411	-.3601			
150.000	-.0183	-.0001	.2404	.2685	-.1201	-.2500	-.4190			
165.000	-.0371		.1194		-.0355	-.2765	-.2565			
180.000	-.0461	-.0264	.1036	.3004						

ALPHA(X)101 = 7.960 BETA(D) (11) = 10.230

SECTION (1) ORBITER PURCHASE DEFECTOR VARIABLE CP

W/L	.0000	.0000	.0220	.0470	.0700	.1120	.1360	.1670	.2070	.2520	.3010	.3750	.4990	.5760
PMT														
20.000	1.136C	.6070	.0701	-.1223	-.0114	.0000		-.2070	-.1965	-.1621	-.0331	.0024	-.1142	.0043
30.000			-.0827	-.0707	.1896	-.0066		-.2790	-.1173					
40.000			.0096	.0943	.1291	-.3402		-.3147	-.2290	-.0925	-.0909	-.1324	-.0231	.0017
50.000			-.0964	.0497	.0294	-.2294		-.2995	-.2134					
70.000			-.0184	.0114	-.0239	-.1397		-.3110	-.2332	-.4172	-.2936	-.2799	-.0094	
90.000	-.0174	.0130	-.0104	-.0438	-.0957			-.1996	-.2903	-.3435	-.3374	-.2250	-.0501	
120.000		.0706	.0293	-.0737	-.0444			-.0397	-.3341	-.3571	-.7091	-.2422	-.0903	
140.000		.0436	.0993	.0205	-.0364				-.2107	-.2622	-.4224	-.4312	-.1391	
170.000								.1239						
190.000														
210.000														
240.000														
260.000														
280.000														
300.000														
320.000														
340.000														
360.000														
380.000														
400.000														
420.000														
440.000														
460.000														
480.000														
500.000														

W/L	.0070	.7500	.7610	.6230	.6620	.9630	.9630	1.0020	1.0210	1.0490
PMT										
60.000	.1179	.1010	.2136	.2092	-.3603	-.3134	-.2979		-.2399	-.2000
70.000	.1367	.1066	.2493	-.2991	-.4032	-.4025	-.3034		-.2799	-.2506
80.000	-.1150	-.2391	-.2793	.0318	.1699	-.2292	-.2324			
90.000	-.0806	-.1629	-.1424	.0419	-.2092	-.2792	-.2641			
100.000			.0110	-.0799	-.2313	-.3134	-.3144			
110.000									-.2792	
120.000	-.0319	-.0754	.2067	-.0791	-.3042	-.3008	-.3617		-.2773	
130.000			.2093	.2026	-.3469	-.4307	-.4390			
140.000	-.0099	-.1431	.0929	.0432	-.2146	-.3637	-.4732			
150.000	-.0830		.0331		-.1903	-.3638	-.2965			
170.000	-.0647	-.0918	.0429	.2342						

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ARC11-716 1A14 01-712-S12E5-AT10 ORB. FUSELAGE (R81833)

ALPHAO(11) = 9.930 BETA0 (2) = -7.920

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
120.000	.9666	.3079	.1693	.1347	.4401				.1233	-.2060	-.4029	-.4579	-.5666		
140.000									.0734						
150.000	.3514	.1513	.1009	.0953					-.0413	-.6271	-.5651	-.4437	-.3913		
151.000								.6067							
156.000								.6063							
162.000								.6397							
165.000							.9062								
169.000							.6149								
174.000															
180.000	1.2640	.5307	.2001	.1369	.0693	.0690			-.5503	-.9925	-.4961	-.3932	-.1561		

X/LB .6530 .7500 .7610 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI	.0000	.2935	.3509	.4234	.4637	-.4750	-.3424	-.2794							
40.000	.3530	.4632	.6373	.3228	-.3031	-.3549	-.5060		-.2649	-.2742					
70.000	-.0446	-.2763	-.3366	-.3936	-.1630	-.1422	-.1201		-.2352	-.2232					
90.000	-.0544	-.2414	-.3470	-.0692	-.1967	-.2232	-.1943								
105.000															
110.000															
120.000	-.4004	-.1697	-.0445	.2677	-.2474	-.2817	-.2436								
135.000															
150.000	-.0809	-.1336	-.0249	-.0296	-.1849	-.1279	-.2443								
165.000	-.0665														
180.000	-.0837	-.1266	.0424	.2690											

ALPHAO(11) = 9.940 BETA0 (3) = -6.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	1.3020	.9541	.4203	.1963	.3478	.0000			-.3205	.0377	.0079	-.0302	.0761	.1915	
40.000									-.3761	-.3057					
50.000									-.1826	-.1932	.0130	.0146	.0712	.0469	.2459
70.000									-.0036	-.1341					
90.000									.0036	-.0294	-.2678	-.0239	-.0085	-.1016	
120.000									.0299	.1182	-.2675	-.1611	-.0902	-.1390	
140.000									.4061	.0742	-.2410	-.4516	-.4327	-.5796	
150.000									.0232	-.0941	-.6194	-.5640	-.3906	-.3193	
156.000								.6349							
162.000								.5912							



ARC11-716 IA14 0L+712+S12E9+AT10 CRB. FUSELAGE (RB1E33)

ALPHA(11) = 9.000 BETA(4) = -3.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6350	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480
PHI	.000	.2717	.3877	.3636	.3675	-.3130	-.3061	-.2621	-.2566	-.2554
40.000	.2930	.4087	.5694	.2356	-.2624	-.3160	-.2735	-.2268	-.2132	
70.000	-.0955	-.2645	-.3419	-.2905	-.1566	-.1365	-.1564			
90.000	-.0864	-.2226	-.2916	-.0664	-.2066	-.2167	-.2191			
105.000		-.0734	-.0350	-.2304	-.3154	-.2234				
110.000							-.2414			
120.000	-.2566	-.1400	.0537	.2561	-.2362	-.2623	-.2530	-.2076		
135.000			.0694	.1411	-.2114	-.0921	-.1674			
150.000	-.0405	-.0556	.1116	.1306	-.1094	-.1504	-.3040			
165.000	-.0042		.1321	.0774	-.0131	-.1953				
180.000	.0690	.0322	.2322	.4246						

ALPHA(11) = 9.000 BETA(5) = -1.900

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5790
PHI	.000	1.3680	.6710	.2464	.1609	.2760	.0000	-.1634	-.2047	-.0065	.0412	.0305	.0367	.1329	
20.000		.3740	.2126	.2257	-.1143	-.3233		-.2120	-.2320	.1469	.0166	.0210	.0061	.1695	
40.000		.7227	.3212	.2466	.0600	-.0622		-.2449	-.1147	-.4106	-.0932	-.0848	-.1731		
55.000		.6625	.4212	.2635	.0865	-.0659		-.0391	.0104	-.3701	-.2674	-.1366	-.2051		
70.000		.7684	.5917	.5717	.1661	.1064		.3473	-.0437	-.3596	-.5496	-.4256	-.3620		
120.000			.4662	.2255	.1363	.1030		-.1140	-.3560	-.6203	-.5550	-.3022	-.1404		
140.000			.3606	.2273	.1460	.1177		.9021							
150.000							.7790								
159.000								.5419							
162.000									-.4635	-.5946	-.4966	-.3617	-.0907		
165.000								.6347							
168.570															
174.000							.9396								
180.000	1.3680	.9600	.3005	.2299	.1721	.1056		.7702							
X/LB	.6580	.7900	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

.9021

.7790

.5419

.6347

.7702

.9396

.7702

.9630

1.0020

1.0210

1.0480

-.2453

-.2096

-.2395



MC11-716 1A14 ORBITER PUSBLAGE (M81853)

ALPHAO(11) = 9.900 BETA0 (5) = -1.900

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.6850	.7500	.7810	.8250	.8620	.9230	.9630	1.0020	1.0210	1.0460
PHI										
120.000	-.1409	-.1023	.0648	.2439	-.2096	-.2547	-.2701	-.2263		
135.000		.1815	.2142	-.1904	-.1243	-.1978				
150.000	-.0111	-.0070	.1855	.2098	-.1326	-.1664	-.2769			
165.000	.0256	.2320		.0434	-.1029	-.2513				
180.000	.7292	.0541	.2809	.4412						

ALPHAO(11) = 9.910 BETA0 (6) = .020

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
1.000	1.3480	.8971	.2806	.1817	.2372	.0000		-.1629	-.1999	-.0089	.0473	.0474	.0763	.1484	
20.000		.3461	.1928	.2327	-.1910			-.3299	-.2462	.1440	-.0137	-.0028	.0673	.1645	
40.000		.8136	.2980	.2135	.0317			-.2442	-.3282	.1440	-.0137	-.0028	.0673	.1645	
55.000		.5992	.3330	.2328	.0425			-.1416	-.2623						
70.000		.5999	.3304	.1903	.0981			-.1370	-.1918	-.4480	-.1203	-.1362	-.1992		
90.000		.6487	.5082	.3068	.1307	.0682		-.0871	-.0800	-.4050	-.2489	-.1876	-.1966		
120.000		.4424	.2305	.1265	.0618			.3048	-.0961	-.3932	-.3789	-.4059	-.2804		
140.000		.3469	.2313	.1481	.1020				-.1784	-.4051	-.6248	-.3255	-.2991	-.0961	
150.000								.4596							
151.000								.7336							
156.000									.3236						
162.000									-.4818	-.5948	-.4770	-.3785	-.0738		
169.000															
174.000						.7711		.6411							
180.000	1.3480	.9401	.2660	.2295	.1682	.1043		.6101	-.6148	-.6048	-.4238	-.3933	-.0590		
X/LB	.6850	.7500	.7810	.8250	.8620	.9230	.9630	1.0020	1.0210	1.0460					

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.6850	.7500	.7810	.8250	.8620	.9230	.9630	1.0020	1.0210	1.0460
PHI										
120.000	.2229	.2390	.2396	.2296	-.2113	-.2811	-.2392		-.2371	-.2346
40.000	.2168	.2916	.3485	.0224	-.2303	-.2419	-.2243		-.2172	-.2156
70.000	-.0886	-.2329	-.3125	-.1729	-.1222	-.1682	-.1809			
90.000	-.0599	-.1896	-.2008	-.0764	-.2320	-.2229	-.2173			
105.000		.0317	-.0877	-.2466	-.3073	-.2321				
110.000										
120.000	-.0427	-.0600	.0683	.1976	-.2780	-.2816	-.2847			
135.000		.9701	.2484	-.1935	-.1819	-.2313				
150.000	.0880	.0223	.3828	.2914	-.1355	-.1880	-.2793			
151.000	.0820	.0820	.3018	.0080	-.1808	-.2823				
160.000	.0382	.0687	.2995	.4457						

ALPHAO(11) = 9.900 BETAO (7) = 2.040

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2320	.3010	.3790	.4990	.5780
PHI	.000	1.3770	.7754	.1905	.2072	.2474	.0000	-.1461	-.1693	-.0268	.0448	.0442	.0663	.1368	
20.000				.2637	.2031	-.2437		-.2976	-.2770	.0799	.0022	-.0022	.0655	.1453	
40.000				.5705	.2418	.1915	-.0221	-.2822	-.3100						
55.000				.6947	.2676	.1926	-.0199	-.1886	-.3100						
70.000				.4872	.2451	.1403	.0069	-.1628	-.1644	-.4787	-.1641	-.1684	-.2076		
90.000		.5443		.4496	.2436	.1021	-.0016	-.1105	-.1213	-.4468	-.2931	-.2037	-.1895		
120.000				.4030	.2003	.1081	.0541	-.2903	-.1403	-.4468	-.6130	-.3302	-.2011		
140.000				.3410	.2266	.1395	.0766	-.4492	-.4492	-.6314	-.5328	-.3070	-.0741		
150.000								.4280							
151.000								.7234							
154.000								.4786							
162.000								-.4861	-.4861	-.6066	-.4484	-.3977	-.0673		
165.000															
169.000															
17.000															
180.000		1.3770	.5917	.3804	.2448	.1743	.1037	.7836	-.8125	-.3903	-.4372	-.3066	-.0742		

X/LB .6630 .7300 .7610 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0490

PHI	.000	.2140	.2408	.2603	.1890	-.2294	-.2613	-.2480	-.2305	-.2405
40.000		.8014	.2416	.2834	-.0405	-.2542	-.2419	-.2198	-.2198	-.2006
70.000		-.0835	-.2570	-.3030	-.1542	-.1131	-.1847	-.2005		
90.000		-.0398	-.1838	-.1478	-.0796	-.2436	-.2248	-.2279		
105.000			.0414	-.1078	-.2628	-.2878	-.2417	-.2453		
110.000								-.2562		
120.000		-.0261	-.0955	.0962	.1472	-.2941	-.2773	-.2962		
135.000				.4331	.2759	-.2191	-.1995	-.2669		
150.000		.0390	.0448	.3602	.3396	-.1217	-.2000	-.3144		
165.000		.0347		.3048		-.0137	-.1995	-.2695		
180.000		.0233	.0609	.2795	.4286					

ALPHAO(11) = 9.900 BETAO (8) = 4.130

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2320	.3010	.3790	.4990	.5780
PHI	.000	1.3570	.6437	.1716	.2254	.2325	.0000	-.1762	-.1706	-.0475	.0387	.0268	.0418	.1191	
20.000				.2182	.2079	.2192	-.3209	-.2934	-.2728						
40.000				.4986	.2213	.1783	-.0855	-.2991	-.2678	.0101	-.0086	-.0091	.0303	.1327	
55.000				.4123	.2182	.1427	-.0751	-.2302	-.3269						
70.000				.4118	.1873	.0999	-.0409	-.2145	-.1944	-.3017	-.2074	-.1894	-.1870		
90.000			.4288	.3909	.1847	.0483	-.0412	-.1329	-.1826	-.4763	-.3213	-.2266	-.1701		



ARC11-716 IAI4 01-712-SIZES+AT10 CRB. FUSelage (081833)

ALPHAO(11) = 9.900 BETA0 (8) = 4.130

SECTION (1) ORBITER FUSelage DEPENDENT VARIABLE CP

PHI	W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.9780
120.000			.3625	.1654	.0603	.0224	.2310				-.1947	-.4936	-.6487	-.3003	-.1346	
140.000											-.3479					
150.000			.3196	.2100	.1120	.0454	.3501				-.4747	-.6303	-.5179	-.3467	-.0573	
171.000							.6542									
196.000							.7726									
182.000																
185.000																
188.000																
174.000							.8366									
160.000	1.3970	.7106	.2316	.1366	.0690		.7366				-.9699	-.5920	-.4649	-.3607	-.0951	
W/LB	.6580	.7300	.7810	.8230	.8620	.9230	.9430	1.0020	1.0210	1.0460						

PHI

.070	.1961	.2176	.2194	.1242	-.2472	-.2636	-.2500				-.2210	-.1993				
40.000	.1771	.2042	.2140	-.1369	-.3471	-.2930	-.2274				-.2173	-.2246				
70.000	-.1008	-.2749	-.3047	-.0935	-.1784	-.1800										
90.000	-.0388	-.2022	-.1206	-.0780	-.1480	-.1977	-.2146									
105.000		.0376	-.1005	-.2240	-.2201	-.2370										
110.000							-.2716									
120.000	-.0153	-.0392	.1069	.1069	-.2912	-.2620	-.2494									
135.000		.3461	.3005	-.2240	-.2149	-.2631										
150.000	.0386	.0406	.3493	.3339	-.1146	-.2123	-.3308									
165.000	.0288	.2836		-.0253	-.2123	-.2750										
180.000	.0161	.0522	.2450	.4004												

ALPHAO(11) = 9.900 BETA0 (9) = 6.100

SECTION (1) ORBITER FUSelage DEPENDENT VARIABLE CP

PHI	W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.9780
.000	1.3080	.4576	.1497	.1615	.1556	.0000					-.0841	-.0578	.0089	-.0164	.0160	.0961
20.000		.1746	.2091	.2207	-.4360						-.1786					
40.000		.4039	.1834	.1574	-.1322						-.2785	-.0536	-.0380	-.0388	.0418	.1231
55.000		.3279	.1821	.1026	-.1250						-.3486					
70.000		.3279	.1267	.0595	-.0767						-.2209	-.5166	-.2503	-.2194	-.1428	
90.000		.2884	.1128	.0039	-.0723						-.2047	-.5048	-.3349	-.2518	-.1257	
120.000		.3049	.1216	.0402	-.0072						-.2329	-.3289	-.6807	-.3184	-.0967	
140.000											-.4135					
160.000		.2717	.1828	.0740	.0247						-.4919	-.6348	-.4778	-.4056	-.0877	
191.000							.6071									
196.000																
182.000																
185.000																
188.000																
174.000																
160.000																
W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.9780	

MRC11-716 1A14 06-112-S182S-4110 CRB. FUSELAGE (MC1033)

ALPHA(11) = 9.000 BETA(9) = 6.100

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI																
165.000																
169.000									.7315							
174.000																
180.000	1.3020	.4549	.2750	.2001	.1276	.0677	.6034									
X/LB	.6550	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480						
PHI																
40.000	.1613	.2170	.2499	.2304	-.2344	-.2653	-.2708									
70.000	.1682	.1975	.2166	-.2080	-.3657	-.3482	-.2300									
90.000	-.0827	-.2370	-.2763	-.0035	-.1469	-.2034	-.2121									
105.000	-.0442	-.1665	-.1092	-.0718	-.1735	-.2296	-.2313									
110.000			.0376	-.1014	-.1906	-.2334	-.2615									
120.000	.0186	-.0460	.1097	.0371	-.3320	-.2305	-.2946									
135.000	.0322	.0426	.5654	.3012	-.2444	-.2654	-.3157									
150.000	.0046		-.2156		-.1293	-.2617	-.3624									
165.000	-.0093	.0030	.1699	.3674	-.0547	-.2334	-.2922									
180.000																

ALPHA(11) = 9.670 BETA(10) = 6.110

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI																
20.000																
40.000																
55.000																
70.000																
90.000																
100.000	1.2120	.5204	.0452	.0165	.0635	.0000										
110.000																
120.000																
130.000																
140.000																
150.000																
160.000																
170.000																
180.000	1.2150	.3786	.1629	.1623	.0910	.0367										
PHI																
20.000																
40.000																
55.000																
70.000																
90.000																
100.000																
110.000																
120.000																
130.000																
140.000																
150.000																
160.000																
170.000																
180.000	1.2150	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480						



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

(R01833)

ARC11-716 1A14 01-712-512K25-AY10 CR6. PUSBLAGE

ALPHAO(11) = 0.070 BETA0 (10) = 0.110

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.6850	.7500	.7910	.8230	.8680	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1883	.2077	.2303	.2359	-.2919	-.2972	-.2885		-.2451	-.2069
40.000	.1670	.2096	.2333	-.2443	-.3679	-.3632	-.2879		-.2634	-.2621
70.000	-.1127	-.2394	-.2946	.0148	-.1779	-.2265	-.2335			
90.000	-.0789	-.1909	-.1282	.0096	-.2032	-.2647	-.2515			
105.000			.0144	-.0732	-.2397	-.2916	-.2924			
110.000								-.2850		
120.000	.0020	-.0480	.1379	-.0212	-.3165	-.2619	-.3377	-.3276		
135.000			.9009	.2693	-.2949	-.3317	-.3542			
150.000	.0153	-.0145	.2836	.3059	-.1419	-.3028	-.4277			
165.000	-.0787		.1217		-.0644	-.2791	-.3031			
180.000	-.0716	-.1112	.0311	.2922						

ALPHAO(11) = 10.000 BETA0 (11) = 10.180

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1020	.6819	.0794	-.1572	-.0782	.0000		-.2167		-.0043	-.0698	-.0452	.0138	-.0522	.0246
20.000			-.0872	-.1737	.1751	-.8056		-.2829		-.1236					
40.000			-.0345	.0691	.1041	-.3937		-.3054		-.2236	-.0874	-.0851	-.0967	.0025	.0851
55.000			-.0830	.0359	.0175	-.2447		-.2769		-.1573					
70.000			-.5451	-.0004	-.0300	-.1572		-.3283		-.2393	-.2956	-.2686	-.2540	-.0702	
90.000		-.0224	-.0236	-.0133	-.0848	-.1135		-.1887		-.2825	-.5301	-.3140	-.2473	-.0491	
120.000			.0217	.0076	-.0703	-.0831		.0367		-.3179	-.5535	-.6845	-.2805	-.0638	
140.000										-.5014					
150.000			-.0097	.0592	-.0062	-.0641			.1107	-.5243	-.6237	-.4415	-.4003	-.1449	
171.000								.4743							
196.000									.2869						
182.000										-.5860	-.9888	-.4716	-.3628	-.1998	
169.000								.6226							
189.000															
174.000															
190.000	1.1880	.3004	.1223	.0088	.0312	-.0012		.5433		-.5824	-.3888	-.5014	-.3697	-.2047	

ALPHAO(11) = 10.000 BETA0 (11) = 10.180

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.6850	.7500	.7910	.8230	.8680	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1981	.1937	.2089	.2002	-.3427	-.3073	-.2967		-.2904	-.2140
40.000	.1394	.1803	.2367	-.2924	-.4126	-.3964	-.2946		-.2871	-.2861
70.000	-.1284	-.2410	-.2070	-.0027	-.1999	-.2283	-.2206			
90.000	-.1083	-.1999	-.1837	.0091	-.2307	-.2784	-.2393			
105.000			-.0135	-.0378	-.2790	-.3110	-.2939			
110.000										

-.2712

(81833)

TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 OL+71E-S12MS-AT10 ORD. FUSELAGE

ALPHAO(11) = 10.000 BETA0 (11) = 10.190

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP	
X/L3			
	.6950	.7500	.7810
	.6250	.6620	.6920
	.9630	1.0020	1.0210
	1.0480		
PHI			
120.000	-.0823	-.0818	.1297
135.000			-.0376
150.000			-.3096
165.000			-.3555
180.000			-.2873
195.000			
210.000			
225.000			
240.000			
255.000			
270.000			
285.000			
300.000			
315.000			
330.000			
345.000			
360.000			
375.000			
390.000			
405.000			
420.000			
435.000			
450.000			
465.000			
480.000			
495.000			
510.000			
525.000			
540.000			
555.000			
570.000			
585.000			
600.000			
615.000			
630.000			
645.000			
660.000			
675.000			
690.000			
705.000			
720.000			
735.000			
750.000			
765.000			
780.000			
795.000			
810.000			
825.000			
840.000			
855.000			
870.000			
885.000			
900.000			
915.000			
930.000			
945.000			
960.000			
975.000			
990.000			
1005.000			
1020.000			
1035.000			
1050.000			
1065.000			
1080.000			
1095.000			
1110.000			
1125.000			
1140.000			
1155.000			
1170.000			
1185.000			
1200.000			
1215.000			
1230.000			
1245.000			
1260.000			
1275.000			
1290.000			
1305.000			
1320.000			
1335.000			
1350.000			
1365.000			
1380.000			
1395.000			
1410.000			
1425.000			
1440.000			
1455.000			
1470.000			
1485.000			
1500.000			

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ARC11-716 1A14 01-712-SIZES-AT11 CR8. PURCHASE (15 FEB 74)

PARAMETRIC DATA

MACH = .000 ELEVCH = .000
RUDDER = .000 SPODRK = .000

REFERENCE DATA

WOP = 2.4210 90.FT. WWP = 29.2900 INCHES
LWOP = 28.7090 INCHES WWP = .0000 INCHES
WOP = 28.7090 INCHES WWP = .0000 INCHES
SCALE = .0000 SCALE

ALPHAX(1) = -0.010 BETA0(1) = -7.900

SECTION (1) ORBITER PURCHASE DEPENDENT VARIABLE CP

K/L/S	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	1.0000	.2597	-.0821	-.1044	-.1033	.0000	-.2043	-.2043	-.1690	-.1792	-.1313	-.1212	-.0987	-.0899	
20.000	.0000	.0016	-.0441	-.0674	-.0858	-.2563	-.2563	-.2563	-.1758	-.1603	-.1265	-.1042	-.0190	.0039	
40.000	.0000	.2433	.0246	-.0282	-.0913	-.0891	-.0911	-.0911	-.0967	-.1319	-.1473	-.0596	.0427	.0776	
70.000	.0000	.4378	.2254	.1232	.0214	-.0209	-.0209	-.0209	-.1737	-.1553	-.0412	.0221	.0764		
90.000	.0000	.5936	.3313	.2092	.1183	.1514	.1514	.1514	-.1417	-.1906	-.2003	-.0099	.0216		
120.000	.0000	.6069	.4115	.3422	.3149				-.1698	-.3403	-.3504	-.1367	-.0322	-.0220	
140.000	.0000	.4962	.3693	.3283	.3399	.2469	.2469	.2469							
170.000	.0000					.5632	.5632	.5632							
190.000	.0000					.3723	.3723	.3723							
196.000	.0000	.6494	.3373	.2392	.2395	.2066	.0930	.3053	-.9693	-.2543	-.1337	-.0756	-.0492		
198.000	.0000	.7900	.7610	.6230	.6620	.9230	.9630	.3053	-1.3110	-.2564	-.1603	-.1029	-.0643		
PHI	1.0000	-.0897	-.0910	-.1106	-.2935	-.3421	-.3764	-.3124	-.2019	-.2082					
40.000	.0000	-.0823	-.0099	1.498	-.2243	-.4226	-.3230	-.2345	-.2263	-.2391					
70.000	.0000	-.0048	-.0135	.0456	1.441	.0409	.0110	-.0241							
90.000	.0000	.0221	.0332	.0960	1.447	.0234	-.0236	-.1296							
105.000	.0000			.1060	1.008	-.0161	-.0699	-.1372							
110.000	.0000	.0391	.1133	.3621	1.014	-.0308	-.0326	-.0996							
120.000	.0000	.4896	.1104	-.0086	-.0172	-.1128									
135.000	.0000	.0289	.1127	.2304	.1316	.0068	-.0187	-.1965							
150.000	.0000	-.0013	.1668	.1669	-.0321	-.2890									
160.000	.0000	-.0282	.0500	.1971	.2910										

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ARC11-716 IAI4 05-112-S10MS-AT11 CRB. PUSBLAGE

(R81034)

ALPHAX 1) = -7.960 BETA0 (2) = -3.900

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

Z/L/S	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1070	.1790	.2030	.2320	.3010	.3790	.4990	.5790
PHI	1.0000	.3143	-.0164	-.0897	-.0826	.0000		-.1360		-.1435	-.1231	-.0945	-.0907	-.0688	-.0764
80.000		.0349	-.0679	-.0385	-.1416			-.2599		-.1482					
60.000		.1875	.0046	-.0385	-.1272			-.2359		-.1901	-.1801	-.1195	-.0916	-.0309	-.0119
55.000		.3174	.1237	.0259	-.0698			-.1747		-.1768					
70.000		.4055	.1939	.0748	-.0081			-.1157		-.2196	-.2083	-.0711	.0100	.0630	
90.000		.6843	.4375	2.407	.1087	.0233		-.1432		-.2434	-.2225	-.0939	-.0034	.0362	
120.000		.5031	.3130	.2459	.2274			.0192		-.2636	-.2327	-.2448	-.0177	.0267	
140.000		.4875	.3817	.3131	.3128			.1409		-.2701	-.2320	-.1196	-.0219	.0118	
150.000								.4836							
156.000								.2039							
162.000								.9824							
168.000															
174.000						.7107		.4912							
180.000	1.0000	.6829	.4301	.3503	.3108	.3066				-1.2320	-.2063	-.1189	-.0437	-.0047	
180.000	.6830	.7300	.7810	.8230	.8620	.9230	.9630	1.0250	1.0210	1.0490					

PHI

.000	-.0648	-.0823	-.1117	-.2637	-.3422	-.3304	-.2753			-.1768	-.1820				
40.000	-.0802	-.0347	.1146	-.2430	-.3498	-.2723	-.2344			-.1771	-.1931				
70.000	-.0090	-.0362	.0046	.0954	.0825	-.0182	-.0978								
90.000	.0029	.0118	.0371	.0782	-.0197	-.0224	-.1413								
105.000			.1005	.0190	-.0670	-.1209	-.1432								
110.000								-.2326							
120.000	.0287	.1073	.2305	-.0857	-.1027	-.1096	-.1410								
136.000			.5714	.1031	-.0681	-.0741	-.1308								
150.000	.0974	.1535	.3371	.1984	-.0314	-.0668	-.2284								
165.000	.0792	.2597	.2997		.0543	-.1182	-.2338								
180.000	.0427	.1208	.2376	.4396											

ALPHAX 1) = -7.960 BETA0 (3) = .030

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

Z/L/S	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1070	.1790	.2030	.2320	.3010	.3790	.4990	.5790
PHI	1.0000	.3190	-.0341	-.0612	-.0463	.0000		-.1630		-.1398	-.1249	-.0903	-.0402	-.0304	-.0646
80.000		.0137	-.0362	-.0517	-.2344			-.2304		-.1630					
60.000		.0791	-.0353	-.1875	-.1878			-.2482		-.1967	-.1621	-.1098	-.0432	-.0362	-.0314
55.000		.1842	.0102	-.0796	-.1392			-.2374		-.2374					
70.000		.2302	.0486	-.0337	-.1126			-.2196		-.3004	-.2902	-.1054	-.0070	.0484	
90.000		.4349	.2916	.0809	-.0609	-.1096		-.2649		-.3846	-.2844	-.1184	-.0209	.0394	



0818341

ARC11-716 IAI14 ORBITER+SIEMENS+ATI1 ORB. PUBLBLAZE

ALPHA(X) IS -0.000 BETA(O) IS 4.000

SECTION (1) ORBITER PUBLBLAZE DEPENDOR VARIABLE CP

W/LB	.0000	.0000	.0200	.0400	.0700	.1100	.1500	.1670	.1790	.2000	.2200	.3010	.3790	.4990	.5700
PHI								.6432							
100.000															
100.000															
174.000															
100.000	1.0000	.0007	.4416	.3701	.3000	.3114	.0136								
W/LB	.0000	.7000	.7010	.0200	.0000	.0000	.0000	1.0000	1.0010	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
PHI															
100.000															
100.000															
174.000															
100.000	1.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
W/LB	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
PHI															
100.000															
100.000															
174.000															
100.000	1.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000

W/LB	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
PHI															
100.000															
100.000															
174.000															
100.000	1.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
W/LB	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
PHI															
100.000															
100.000															
174.000															
100.000	1.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000

ALPHA(X) IS -0.000 BETA(O) IS 0.130

SECTION (1) ORBITER PUBLBLAZE DEPENDOR VARIABLE CP

W/LB	.0000	.0000	.0200	.0400	.0700	.1100	.1500	.1670	.1790	.2000	.2200	.3010	.3790	.4990	.5700
PHI															
100.000															
100.000															
174.000															
100.000	1.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
W/LB	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
PHI															
100.000															
100.000															
174.000															
100.000	1.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000

W/LB	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
PHI															
100.000															
100.000															
174.000															
100.000	1.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
W/LB	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
PHI															
100.000															
100.000															
174.000															
100.000	1.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000



DATE 08 DEC 74 TABULATED MEASURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 06-712-S12E3-AT11 ORG. FUSELAGE (R61834)

ALPHAO1 1) = -0.020 BETA0 (5) = 0.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

K/LB	.6530	.7500	.7610	.6230	.6620	.9250	.9630	1.0020	1.0210	1.0480
PHI										
.000	-1.175	-1.967	-2274	-3574	-3596	-3087	-2466		-1949	-1754
40.000	-1.520	-1.734	-1296	-5704	-3159	-2875	-2421		-1837	-1823
70.000	-0.927	-1.343	-1362	-6208	-1163	-1116	-1501			
90.000	-0.686	-1.486	-1933	-1592	-1940	-1816	-2027			
105.000			-1279	-2034	-2336	-2216	-1976			
110.000										-2442
120.000	-0.677	-0.897	-4016	-6622	-3412	-2903	-2627			-2237
135.000			3907	-4016	-9643	-4496	-3971			
150.000	-0.677	0.021	3411	2139	-4607	-3737	-3566			
165.000	-0.469		2136		-3926	-4027	-2536			
180.000	-0.026	0.451	1765	3467						

ALPHAO2 2) = -4.020 BETA0 (1) = -0.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

K/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.0070	3229	-0325	-1014	-0667	0000		-1975		-1797	-1560	-1190	-1141	-0622	-0461
20.000			0325	-0256	-0507	-0763		-2361		-1549					
40.000			3006	0759	0096	-0569		-2565		-1310	-1349	-1036	-0875	0102	0472
55.000			4792	2409	1578	0646		-0626							
70.000			5369	3363	2161	1226		0001		-1270	-1606	-0590	0044	0397	
90.000	.7875		5306	3516	2167	1569		0045		-1603	-1680	-0725	-0110	0287	
120.000			5387	3471	2616	2366		1229		-1770	-2371	-2500	-0722	-0563	
140.000										-2611					
150.000			5977	2943	2336	2377				-4359	-4274	-1923	-1001	-0729	
151.000									.9191						
156.000									.1942						
162.000										-1.1260	-3113	-2016	-1136	-0974	
165.000															
169.000															
174.000															
180.000	1.0070	5979	2672	2042	1737	1917									
K/LB	.6530	.7500	.7610	.6230	.6620	.9250	.9630	1.0020	1.0210	1.0480					

K/LB	.6530	.7500	.7610	.6230	.6620	.9250	.9630	1.0020	1.0210	1.0480
PHI										
.000	-0.6160	-0.991	-0.0968	-3092	-3196	-3415	-2692		-1627	-1826
40.000	-0.5111	0549	1767	-2299	-4102	-3101	-2722		-2234	-2236
70.000	-0.0976	-0.7946	0062	1379	0363	0129	-0700			
90.000	-0.7926	-0.6037	0369	1362	0160	-0292	-1213			
105.000			1463	0966	-0279	-0922	-1301			
110.000										-2500

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ALPHA(2) = -4.050 BETA(1) = -6.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.6550	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PH1										
120.000	-0.0526	.0471	.3847	.0962	-0.430	-0.928	-1.043	-1.578		
135.000			.3919	.0345	-0.496	-0.411	-1.385			
150.000	-0.0436	.0379	.1816	.0671	.0318	-0.330	-1.990			
165.000	-0.0586	.1417		.1300	-0.631	-2.840				
180.000	-0.0816	.0069	.1396	.2369						

ALPHA(2) = -4.050 BETA(2) = -4.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4590	.5780
PH1															
.000	1.0760	.3769	.0090	-0.0512	-0.484	.0000		-1.306		-1.445	-1.313	-0.975	-0.857	-0.820	-0.0396
20.000			.0752	-0.0074	-0.210	-1.366		-2.353		-1.903					
40.000			.2290	.0479	-0.147	-1.075		-2.460		-1.743	-1.541	-1.151	-0.863	-0.115	.0232
55.000			.3472	.1528	.0541	-0.402		-1.923		-1.663					
70.000			.4111	.2035	.0816	.0173		-1.066		-2.196	-2.270	-1.017	-0.214	.0148	
90.000		.6169	.4176	.2351	.1015	.0353		-1.502		-2.776	-2.382	-1.063	-0.348	.0139	
120.000		.4509	.2334	.2017	.1879	.0093		.0093		-2.965	-2.900	-2.686	-0.532	-0.0199	
140.000		.3962	.3048	.2363	.2448			.0842		-4.919	-3.702	-1.619	-0.636	-0.0300	
150.000								.545							
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0760	.6041	.3315	.2650	.2322	.2363		.6893		-1.1150	-2.093	-1.562	-0.711	-0.443	
X/L	.6550	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PH1															
.000	-0.0231	-0.0479	-0.0874	-0.2273	-0.3211	-0.3149	-0.2962								
40.000	-0.0396	.0076	.1432	-0.2163	-0.3265	-0.2588	-0.2198								
70.000	-1.0006	-1.0359	-0.5344	.0779	-0.1006	-0.231	-0.0948								
90.000	-0.0961	-0.0473	.0060	.0725	-0.0342	-0.097	-1.437								
105.000			.0620	.0039	-0.0622	-1.317	-1.580								
110.000															
120.000	-0.0170	.0574	.2481	-0.0362	-0.1101	-0.1077	-1.408								
135.000			.4926	.0301	-0.0966	-0.0885	-1.629								
150.000	.0087	.1028	.2779	.1350	-0.0875	-1.069	-2.337								
165.000	.0084	.0084	.2126	.0167	-1.413	-2.454									
180.000	.0084	.0773	.2081	.3674											



ARC11-746 1A14 01+112+S12E5+AT11 CRB. PUSBLAGE (R81834)

ALPHAO (2) = -4.030 BETA0 (3) = .040

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1870	.1780	.2090	.2920	.3010	.3790	.4990	.5760
PHI	.000	1.0830	.3647	-.0010	-.0401	-.0322	.0000	-.1936	-.1463	-.1281	-.0828	-.0820	-.0398	-.0379	
20.000			.0493	-.0395	-.0362	-.2192	-.2169	-.1568	-.1568	-.1682	-.1153	-.0870	-.0234	-.0020	
40.000			.1342	-.0141	-.0667	-.1639	-.2302	-.2284	-.2284	-.2792	-.1313	-.0394	.0024		
55.000			.2031	.0299	-.0568	-.1363	-.2022	-.2990	-.3174	-.2967	-.1393	-.0483	.0027		
70.000		.4138	.2329	.0967	-.0511	-.0992	-.2496	-.4067	-.4067	-.3444	-.2948	-.0650	-.0172		
90.000			.3324	.1430	.0861	.0795	-.1338	-.4239	-.5577	-.3210	-.1599	-.0592	-.0203		
120.000			.3994	.2702	.2007	.1935	-.0322								
150.000							.3405								
191.000							.0273								
156.000															
162.000															
165.000															
169.000															
174.000															
180.000		1.0830	.6066	.3645	.2864	.2512	.2986	.4789	-.1.0860	-.2461	-.1449	-.0606	-.0249		
X/LB	.6950	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.000	-.0301	-.0484	-.0707	-.2042	-.2490	-.2647	-.2276	-.1440	-.1991					
40.000		-.0825	-.0479	.0405	-.2970	-.2472	-.2432	-.1943	-.1341	-.1332					
70.000		-.0969	-.1238	-.0701	.0254	-.0456	-.0487	-.1024							
90.000		-.0929	-.0671	-.0440	-.0073	-.0747	-.0886	-.1419							
105.000			.0046	-.0949	-.1244	-.1497	-.1539	-.1607							
110.000								-.1649							
120.000		-.0110	.0513	.0547	-.2330	-.1839	-.1999	-.1655							
135.000			.9236	-.0026	-.1899	-.1655	-.2041								
150.000		.0807	.1112	.3562	.1831	-.1719	-.1824	-.2391							
165.000		.0307		.2319		-.1025	-.2096	-.2205							
180.000		.0212	.1103	.2287	.4807										

ALPHAO (2) = -4.060 BETA0 (4) = 4.070

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1870	.1780	.2090	.2920	.3010	.3790	.4990	.5760
PHI	.000	1.0960	.3432	-.0195	-.0411	-.0823	.0000	-.1313	-.1467	-.1492	-.1202	-.1024	-.0777	-.0793	
20.000			-.0157	-.0426	-.0940	-.3216	-.2395	-.1802	-.1802	-.1769	-.1348	-.1024	-.0327	-.0274	
40.000			.0138	-.0968	-.1236	-.2132	-.2599	-.2963	-.2963	-.2963	-.1348	-.1024	-.0327	-.0274	
55.000			.0515	-.0924	-.1681	-.2092	-.2783	-.2783	-.2783	-.2783	-.1348	-.1024	-.0327	-.0274	
70.000			.0902	-.0649	-.1732	-.1936	-.2784	-.2784	-.2784	-.2784	-.1348	-.1024	-.0327	-.0274	
90.000			.1813	.1033	-.0668	-.2072	-.3478	-.3478	-.3478	-.3478	-.1348	-.1024	-.0327	-.0274	

ORIGINAL PAGE IS OF POOR QUALITY

MCC11-716 1A14 CR-1124-S12825-AT11 CR6. FUSELAGE (M61824)

ALPHAO (2) = -4.040 BETA0 (4) = 4.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
120.000			.1844	.0014	-.0554	-.0509		-.3023		-.3201	-.4030	-.3499	-.1030	-.0548	
140.000										-.5130					
150.000			.2701	.1693	.1135	.1037				-.6337	-.3168	-.1769	-.0690	-.0327	
151.000								.1769							
156.000															
162.000															
163.000															
169.000															
174.000															
180.000	1.0560	.5984	.3519	.2722	.2258	.2429	.3749	.4177		-1.3830	-2.489	-1.3953	-.0771	-.0349	
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.0000	.0901	-.1354	-.3031	-.2636	-.2397	-.2102								
40.000		-.0934	-.0997	-.0528	-.4327	-.2394	-.2267	-.1924		-.1482	-.1579				
70.000		-.1042	-.1429	-.1249	-.0178	-.0913	-.0868	-.1321		-.1476	-.1603				
90.000		-.0706	-.1003	-.1053	-.0725	-.1272	-.1287	-.1711							
105.000			-.0711	-.1606	-.1731	-.1936	-.1912								
110.000															
120.000	-.0493	-.0403	-.1483	-.4490	-.2741	-.2363	-.2200	-.2161							
135.000			.4882	-.1457	-.3382	-.2838	-.2819								
150.000	-.0122	.0716	.3340	.1866	-.3152	-.2882	-.3130								
165.000	-.0020		.2307		-.2306	-.3204	-.2137								
180.000	.0037	.0811	.2009	.4042											

ALPHAO (2) = -4.040 BETA0 (5) = 6.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
80.000		.9823	.2641	-.1008	-.1187	-.1269	.0000	-.2368	-.2370	-.2368	-.2370	-.1881	-.1814	-.1318	-.1354
40.000				-.1148	-.1187	-.1612	-.4412	-.2813		-.2825					
60.000				-.1363	-.2006	-.2089	-.2896	-.2890		-.2357	-.2430	-.1896	-.1587	-.0914	-.0396
55.000				-.1098	-.2112	-.2623	-.2702	-.3192		-.2968					
70.000				-.0754	-.2151	-.2789	-.2648	-.3324		-.3903	-.3224	-.1591	-.0818	-.0150	
90.000			-.0742	-.0817	-.2106	-.3193	-.3081	-.4368		-.3131	-.3606	-.1711	-.0700	-.0224	
120.000				.0028	-.2151	-.2139	-.2013	-.4766		-.6303	-.4691	-.4032	-.1467	-.0943	
140.000										-.2957					
150.000				.0514	.0909	-.0008	-.0206			-.7221	-.3405	-.2196	-.1900	-.1106	
151.000								-.0280							
156.000															
162.000															



ARC11-716 1A14 04-718-312829-AT11 CRB. FUSELAGE (R81834)

ALPHAX (3) = -.310 BETA0 (1) = -6.030

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6300	.7500	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0004	-.0108	-.0088	-.2895	-.2960	-.3094	-.2492		-.1566	-.1884
40.000	.0413	.0808	.1941	-.2124	-.4073	-.3091	-.2782		-.2085	-.2201
70.000	-.1746	-.1298	-.0183	.1355	.0376	.0239	-.0634			
90.000	-.1181	-.0803	.0381	.1355	.0133	.0213	-.1134			
105.000			.1360	.1128	-.0502	-.0935	-.1316			
110.000								-.2115		
120.000	-.1448	-.0170	.3692	.1136	-.0608	-.0864	-.1049			
135.000			.3111	-.0430	-.0985	-.0687	-.1266			
150.000	-.0808	.0139	.1336	.0110	.0081	-.0482	-.1956			
165.000	-.0802		.1034		.1040	-.0910	-.2682			
180.000	-.0682	-.0137	.1046	.1960						

ALPHAX (3) = -.380 BETA0 (2) = -4.010

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.0750	.4353	.0409	-.0302	-.0495	.0000		-.1227	-.1365	-.1207	-.0929	-.0714	-.0236	-.0082	
20.000		.1114	-.0293	-.0131	-.1296			-.2218	-.1350						
40.000		.2682	.0743	.0104	-.0876			-.2203	-.1326	-.1423	-.1086	-.0729	.0181	.0630	
55.000		.3786	.1763	.0773	-.0103			-.1370	-.1461						
70.000		.4134	.2078	.0932	.0136			-.0935	-.2142	-.2414	-.1223	-.0439	-.0173		
90.000		.3888	.3784	.2037	.0773	.0340		-.1275	-.2763	-.2498	-.1337	-.0566	-.0149		
120.000			.3971	.2022	.1491	.1924		.0040	-.3212	-.3218	-.2940	-.0910	-.0721		
140.000									-.4008						
150.000			.3181	.2210	.1647	.1865			-.5789	-.4282	-.1932	-.0884	-.0608		
151.000								.4193	.0413						
156.000									.0606						
162.000										-.12510	-.3046	-.1789	-.0822	-.0641	
165.000															
169.000															
174.000															
180.000	1.0750	.5124	.2476	.1898	.1573	.1752	.6311	.3987	-.19990	-.2831	-.1630	-.0684	-.0576		

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6300	.7500	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0172	-.0193	-.0687	-.2310	-.3031	-.2971	-.2396		-.1900	-.1602
40.000	.0096	.0418	.1615	-.2084	-.3236	-.2576	-.2145		-.1671	-.1913
70.000	-.1882	-.1390	-.0823	.0734	.0103	-.0193	-.0882			
90.000	-.1296	-.0932	-.0110	.0691	-.0406	-.0603	-.1340			
105.000			.0736	.0087	-.0818	-.1310	-.1510			
110.000								-.2209		



ARC11-716 1A14 ON-TI2-SIZES+AT11 CRG. FUSELAGE

(RB1834)

ALPHAOX 3) = -.360 BETAO (2) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7500	.7610	.8230	.8620	.9250	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0753	.0801	.2548	-.0270	-.1127	-.1097	-.1377	-.1742		
135.000			.4236	.0029	-.1133	-.0996	-.1668			
150.000	-.0300	.0712	.2262	.0622	-.0875	-.1199	-.2236			
165.000	-.0303		.1772		-.0132	-.1496	-.2327			
180.000	-.0825	.0307	.1768	.3212						

ALPHAOX 3) = -.360 BETAO (3) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.9760
PHI															
.000	1.0910	.4440	.0361	-.0335	-.0457	.0000		-.1447		-.1339	-.1162	-.0794	-.0512	-.0141	-.0041
20.000			.0876	-.0323	-.0278	-.2075		-.2115		-.1497		-.1714	-.1025	-.0784	.0004
40.000			.1691	.0106	-.0439	-.1475		-.2264		-.2199		-.2199	-.1111	-.0784	.0004
55.000			.2210	.0490	-.0410	-.1140		-.2141		-.2979	-.2662	-.1510	-.0666	-.0299	
70.000			.2727	.0655	-.0404	-.0861		-.1868		-.3676	-.2994	-.1320	-.0634	-.0236	
90.000		.3918	.2177	.0726	-.0364	-.0878		-.2305		-.4196	-.3615	-.2963	-.0681	-.0360	
120.000			.2901	.0762	.0540	.0367		-.1268		-.4787		-.6314	-.3662	-.1765	-.0694
140.000			.2766	.1932	.1240	.1466		-.0966							
150.000							.3108								
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0910	.9131	.2684	.2081	.1749	.1963		.4336		-.1290	-.2799	-.1579	-.0685	-.0366	

W/LB	.6530	.7500	.7610	.8230	.8620	.9250	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0105	-.0146	-.0455	-.1661	-.2294	-.2576	-.2100		-.1348	-.1317
40.000	-.0145	.0009	.0682	-.2784	-.2356	-.2390	-.1845		-.1247	-.1296
70.000	-.1737	-.1607	-.1029	.0159	.0354	-.0475	-.0962			
90.000	-.1196	-.1131	-.0637	-.0136	-.0634	-.0918	-.1336			
109.000		.0005	-.1029	-.1278	-.1316	-.1531				
110.000							-.1921			
120.000	-.0513	.0131	.0667	-.1669	-.1768	-.1507	-.1591			
135.000		.4305	-.0109	-.1662	-.1990	-.1901				
150.000	-.0690	.0517	.2798	.1323	-.1932	-.2492				
165.000	-.0889		.2104	-.1259	-.2214	-.2068				
180.000	-.0046	.0799	.1991	.4066						

MRC11-716 1A14 08-112-SIZES*AT11 CRB. FUSELAGE (R81834)

ALPHAXI 3) = -.320 BETAIO (4) = 4.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	1.0540	.4054	.0060	-0.420	-0.0732	.0000									
20.000		.0157	-0.414	-0.0829	-0.3167										
40.000		.0326	-0.0814	-0.1193	-0.2126										
55.000		.0387	-0.0915	-0.1647	-0.1906										
70.000		.0615	-0.0932	-0.1611	-0.1615										
90.000		.1519	-0.0674	-0.0696	-0.1680	-0.1944									
120.000			.1468	-0.0222	-0.0627	-0.0960									
140.000			.2030	.1236	.0535	.0428									
151.000															
156.000															
162.000															
165.000															
168.000															
174.000															
180.000															
X/LB	.6200	.7500	.7610	.6250	.6620	.9250	.9600	1.0020	1.0210	1.0480					
PHI															
40.000															
70.000															
90.000															
105.000															
110.000															
135.000															
150.000															
165.000															
180.000															

ALPHAXI 3) = -.320 BETAIO (9) = 8.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	.9544	.3177	-.0816	-0.1022	-0.1361	.0000									
20.000			-.1001	-0.1432	-0.1708	-0.495									
40.000			-.1307	-0.1997	-0.2196	-0.538									
55.000			-.1206	-0.2169	-0.2722	-0.776									
70.000			-.0865	-0.2155	-0.2889	-0.296									
90.000			-.1120	-0.0734	-0.2172	-0.3362	-0.2877								
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
156.000															
162.000															
165.000															
168.000															
174.000															
180.000															



ARC11-716 1A14 OR-T12-S12E5-AT11 CRB. FUELSLAGE (R61834)

ALPHAX (3) = -.368 BETA0 (3) = 0.110

SECTION (1) ORBITER FUELSLAGE DEPENDENT VARIABLE CP

W/LB	.0880	.0890	.0830	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2920	.5010	.3790	.4990	.5760
PWT															
120.000															
140.000															
150.000															
171.000															
176.000															
182.000															
189.000															
174.000															
180.000															
W/LB	.0880	.0890	.0830	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2920	.5010	.3790	.4990	.5760

SECTION (2) ORBITER FUELSLAGE DEPENDENT VARIABLE CP

W/LB	.0880	.0890	.0830	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2920	.5010	.3790	.4990	.5760
PWT															
120.000															
140.000															
150.000															
171.000															
176.000															
182.000															
189.000															
174.000															
180.000															
W/LB	.0880	.0890	.0830	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2920	.5010	.3790	.4990	.5760

ALPHAX (4) = 4.000 BETA0 (4) = -6.050

SECTION (3) ORBITER FUELSLAGE DEPENDENT VARIABLE CP

W/LB	.0880	.0890	.0830	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2920	.5010	.3790	.4990	.5760
PWT															
120.000															
140.000															
150.000															
171.000															
176.000															
182.000															
189.000															
174.000															
180.000															
W/LB	.0880	.0890	.0830	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2920	.5010	.3790	.4990	.5760

ARC11-718 1A14 01-112-81263-AT111 CRG. PUSBLAGE (081834)

ALPHAX(4) = 4.000 BETA0 (1) = -0.050

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PHI															
166.000															
169.000															
174.000															
190.000															
W/LB	.6830	.7500	.7810	.8230	.8620	.9630	1. 20	1.0210	1.0460						
PHI															
.000	.0608	.0114	-.0468	-.2801	-.2305	-.2991	-.2407								
40.000	.1003	.1119	.2222	-.2124	-.4145	-.3082	-.2685								
70.000	-.2635	-.1930	-.0402	.1297	.0430	.0326	-.0445								
90.000	-.2003	-.1229	.0167	.1309	.0249	-.0149	-.1080								
105.000															
110.000															
120.000	-.2719	-.1371	.4035	.1316	-.0791	-.0610	-.1085								
135.000															
150.000	-.1479	-.0382	.0665	-.0681	-.0116	-.0532	-.1902								
165.000	-.1269		.0816		.0841	-.0924	-.2724								
190.000	-.1059	-.0568	.0784	.1369											

PHI .000 -1.429 -.1535

40.000 -.1994 -.2112

70.000 -1.429 -.1535

90.000 -.1994 -.2112

105.000 -1.429 -.1535

110.000 -.1994 -.2112

120.000 -1.429 -.1535

135.000 -.1994 -.2112

150.000 -1.429 -.1535

165.000 -.1994 -.2112

190.000 -1.429 -.1535

ALPHAX(4) = 4.000 BETA0 (2) = -3.960

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1960	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PHI															
.000	1.0400	.5012	.0760	-.0175	-.0408	.0000									
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
190.000															

PHI .000 -1.192 -.1019 -.0693 -.0572 .0069 .0336

20.000 -.1168

40.000 -.1270 -.1176 -.0836 -.0906 .0447 .1066

55.000 -.1265

70.000 -.2109 -.2314 -.1441 -.0700 -.0599

90.000 -.2774 -.2570 -.1598 -.0837 -.0284

120.000 -.1174

140.000 -.3484 -.3606 -.3339 -.1982 -.1546

150.000 -.4616

151.000 -.6390 -.4935 -.2263 -.1199 -.0932

156.000 -.0059

162.000 .3661

165.000 -.0017

169.000 -1.4280 -.3484 -.2131 -.1126 -.0687

174.000 .4187

190.000 .2743

PHI .000 -1.7890 -.3120 -.1764 -.1033 -.0706

20.000 .2743

40.000 .9696

55.000 .2743

70.000 .2743

90.000 .2743

120.000 .2743

140.000 .2743

150.000 .2743

151.000 .2743

156.000 .2743

162.000 .2743

165.000 .2743

169.000 .2743

174.000 .2743

190.000 .2743

ORIGINAL PAGE IS OF POOR QUALITY



081834)

ARC11-716 1A14 01-718-SIGMA-AT11 CR8. PUSELAGE

ALPHAXI 4) = 4.000 BETA0 (2) = -3.940

SECTION (1) CRIBBITER PUSELAGE DEPENDENT VARIABLE CP

W/L5	.6030	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0490
PHI	.000	.0609	.0217	-.0478	-.2907	-.2931	-.2837	-.2197	-.1321	-.1414
40.000	.0482	.0870	.1676	-.2264	-.5337	-.2646	-.2221		-.1636	-.1826
70.000	-.2877	-.2082	-.0839	.0739	-.0011	-.0033	-.0667			
90.000	-.1936	-.1437	-.0337	.0730	-.0286	-.0535	-.1205			
105.000		.0676	.0340	-.0796	-.1247	-.1408				
110.000							-.2078			
120.000	-.1678	-.0389	.2737	.0349	-.1164	-.1091	-.1238			
135.000			.3466	-.0732	-.1436	-.1115	-.1749			
150.000	-.0712	.0324	.1760	.0245	-.1031	-.1205	-.1991			
165.000	-.0401		.1441							
180.000	-.0303	.0327	.1433	.2817						

ALPHAXI 4) = 4.000 BETA0 (3) = .030

SECTION (1) CRIBBITER PUSELAGE DEPENDENT VARIABLE CP

W/L5	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.0000	.5068	.0751	.0097	-.0305	.0000	-.1326	-.1224	-.1017	-.0571	-.0341	.0193	.0371	
20.000		.1201	.0199	-.0130	-.1997			-.1937	-.1347						
40.000		.2010	.0400	-.0305	-.1344			-.2136	-.1928	-.1466	-.0949	-.0615	.0273	.0405	
55.000		.2385	.0541	-.0412	-.1083			-.2020	-.2091	-.1466	-.0949	-.0615	.0273	.0405	
70.000		.2309	.0626	-.0424	-.0666			-.1825	-.2634	-.2514	-.1650	-.0466	-.0430		
90.000		.3468	.2725	.0420	-.0680	-.0824		-.2211	-.3385	-.2994	-.1770	-.0695	-.0356		
120.000			.2343	.0096	.0111	.0326		-.1263	-.4397	-.3765	-.3229	-.1118	-.0411		
140.000				.1809	.1073	.0332	.0669		-.3240	-.7045	-.4123	-.1967	-.0910	-.0364	
151.000								-.1320							
156.000								.2670							
162.000									-.0985						
168.000										-.13600	-.3071	-.1809	-.0432	-.0397	
169.000															
174.000															
180.000	1.0000	.4113	.1660	.1203	.0947	.1292	.9036								
W/L5	.6030	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0490					
PHI	.000	.0413	-.0333	-.2329	-.2049	-.2405	-.2000								
40.000	.0399	.0406	.0924	-.2907	-.2392	-.2303	-.1929								
70.000	-.2394	-.2334	-.1291	.0162	-.0498	-.0422	-.0929								
90.000	-.1913	-.1816	-.0810	-.0102	-.0433	-.0926	-.1365								
105.000		.0217	-.0878	-.1319	-.1374	-.1371									
110.000															

ORIGINAL PAGE IS OF POOR QUALITY

0801034)

ARC11-716 1A14 08-712-812625-AT11 CRB. PUSBLAGE

ALPHACX 4) = 4.000 BETA0 (3) = .030

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/L8	.6830	.7500	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400
PWT										
120.000	-.1010	-.0164	.0748	-.1291	-.1601	-.1442	-.1961	-.1717		
138.000				.3644	-.0375	-.1964	-.1920	-.1601		
150.000	-.0392	.0798	.2266	.0870	-.0224	-.1936	-.2146			
166.000	-.0353		.1751	-.1433	-.2297	-.1969				
180.000	-.0320	.0543	.1557	.3759						

ALPHACX 4) = 3.990 BETA0 (4) = 4.000

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/L8	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4090	.5760
PWT															
.000	1.0400	.4639	.0291	-.0293	-.0825	.0000		-.1191	-.1212	-.1247	-.0965	-.0765	-.0399	-.0126	
20.000			.0456	-.0447	-.0634	-.3045		-.2195	-.1914	-.1756	-.1264	-.0777	-.0113	.0399	
40.000			.0590	-.0744	-.1036	-.2037		-.1293	-.1691	-.2329	-.3440	-.3249	-.1790	-.0928	-.0712
54.000			.0299	-.0810	-.1377	-.1826		-.2641	-.4237	-.3293	-.1855	-.0822	-.0537		
70.000			.1291	.0242	-.1039	-.1971	-.1821	-.3120	-.3199	-.3997	-.3126	-.0690	-.0963		
90.000			.1072	-.0556	-.0828	-.0604	-.2399	-.2976	-.7471	-.3760	-.1974	-.0919	-.0452		
140.000			.1226	.0211	-.0059	.0203		-.2911							
150.000								.1412							
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0400	.3429	.1705	.1111	.0755	.1114	.3034	.3014	-.1330	-.3104	-.1914	-.0930	-.0719		
W/L8	.6830	.7500	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400					

ALPHACX 4) = 3.990 BETA0 (4) = 4.000

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/L8	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4090	.5760
PWT															
.000	1.0400	.4639	.0291	-.0293	-.0825	.0000		-.1191	-.1212	-.1247	-.0965	-.0765	-.0399	-.0126	
20.000			.0456	-.0447	-.0634	-.3045		-.2195	-.1914	-.1756	-.1264	-.0777	-.0113	.0399	
40.000			.0590	-.0744	-.1036	-.2037		-.1293	-.1691	-.2329	-.3440	-.3249	-.1790	-.0928	-.0712
54.000			.0299	-.0810	-.1377	-.1826		-.2641	-.4237	-.3293	-.1855	-.0822	-.0537		
70.000			.1291	.0242	-.1039	-.1971	-.1821	-.3120	-.3199	-.3997	-.3126	-.0690	-.0963		
90.000			.1072	-.0556	-.0828	-.0604	-.2399	-.2976	-.7471	-.3760	-.1974	-.0919	-.0452		
140.000			.1226	.0211	-.0059	.0203		-.2911							
150.000								.1412							
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0400	.3429	.1705	.1111	.0755	.1114	.3034	.3014	-.1330	-.3104	-.1914	-.0930	-.0719		
W/L8	.6830	.7500	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400					



MFC11-716 1A14 Q1-T19-31262-AT11 CRG. FUELRAGE 0818341

ALPHACX 91 = 7.000 BETAC (1) = -0.010

SECTION (1) CRIBITER FUELRAGE DEPENDENT VARIABLE CP

M/L/S	.0000	.0000	.0000	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2300	.3010	.3790	.4990	.5760
PM1															
120.000				.3096	.1099	.0824	.0716	.0149		-.3071	-.4086	-.9127	-.3789	-.4083	
140.000										-.4472					
150.000				.0826	-.0009	-.0091	.0395			-.7094	-.8606	-.3183	-.2200	-.2043	
171.000								.5953		.0379					
196.000									-.0074						
182.000										-1.0000	-.4470	-.2830	-.1676	-.1760	
191.000															
169.000															
174.000															
180.000				.9546	-.0849	-.0433	-.0009	.3654		-2.0940	-.3741	-.2397	-.1636	-.1349	

M/L/S .0000 .7910 .9230 .9620 .9820 .9830 1.0020 1.0210 1.0490

PM1

40.000	.0964	.0342	-.0003	-.2314	-.2999	-.2997	-.2213			-.1539	-.1343				
120.000	-.3797	-.1737	.4516	.1436	-.0901	-.0921	-.1235	-.1441		-.1791	-.1875				
135.000			.1225	-.2423	-.1973	-.1441	-.2170								
150.000	-.1879	-.0881	.0306	-.1166	-.0342	-.0393	-.1793								
169.000	-.1468		.0416	.0680	-.0936	-.2339									
180.000	-.1199	-.0421	.0390	.0896											

ALPHACX 91 = 7.000 BETAC (2) = -4.010

SECTION (1) CRIBITER FUELRAGE DEPENDENT VARIABLE CP

M/L/S	.0000	.0000	.0000	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2300	.3010	.3790	.4990	.5760
PM1															
120.000				.1137	.0091	-.0301	.0000	-.0914		-.1033	-.0864	-.0547	-.0334	.0844	.0293
140.000				.1914	.0374	.0144	-.0931	-.1947		-.0994					
150.000				.3433	1.4000	-.3395	-.0399	-.1545		-.1227	-.0962	-.0398	-.0329	.0715	.1382
171.000				.4206	.2139	.1029	.0163	-.0902		.1196					
196.000				.4117	.2090	.0919	.0298	-.0924		-.2024	-.2836	-.1394	-.0379	-.0793	
182.000				.3324	.1937	.0484	.0183	-.1132		-.2726	-.2690	-.1753	-.1159	-.0864	
191.000				.2397	.0270	.0254	.0304	-.0420		-.3741	-.4020	-.4211	-.2362	-.2439	
169.000										-.3043					
174.000				.1136	.0493	-.0093	.0351			-.7390	-.5442	-.2486	-.1379	-.1184	
180.000															
191.000															
196.000															
182.000															

-.3599

-.0334



ARC11-716 1A14 OR-712-512E9-AT11 CRB. FUSELAGE (RB1634)

ALPHA(X 5) = 7.900 BETA(C 2) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
165.000															
168.000															
174.000							.5456	.3734							
190.000	1.0350	.3077	.0536	.0261	.0034	.0313									
W/LB	.6530	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0645	.0334	-.0257	-.2237	-.2943	-.2723	-.2005								
40.000	.0993	.1023	.1963	-.3396	-.2613	-.2139									
70.000	-.3306	-.2351	-.1070	.0643	.0096	.0111	-.0318								
90.000	-.2380	-.1825	-.0460	.0625	-.0247	-.0384	-.1078								
105.000		.0590	.0795	-.0748	-.1204	-.1315									
110.000															
120.000	-.2440	-.0842	.2695	.0347	-.1270	-.1114	-.1328								
135.000															
150.000	-.1014	.0027	.1348	-.0115	-.1133	-.1237	-.1846								
165.000	-.0796	.1075		-.0536	-.1532	-.2144									
180.000	-.0671	.0111	.1087	.2364											

ALPHA(X 5) = 7.910 BETA(C 3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
190.000	1.0790	.3096	.0723	.0443	.0242	.0741									
W/LB	.6230	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
190.000	1.0790	.3096	.0723	.0443	.0242	.0741									
W/LB	.6230	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

ORIGINAL PAGE IS OF POOR QUALITY

AFC11-716 1A14 ORBITER FUSELAGE

(R81634)

ALPHA(5) = 7.910 BETA(3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0611	.0429	-.0012	-.2216	-.2197	-.2218	-.1917		-.1195	-.1125
40.000	.0683	.0762	.1290	-.2661	-.2114	-.2179	-.1606		-.1129	-.1116
70.000	-.3311	-.2716	-.1496	.0275	.0363	-.0329	-.0664			
90.000	-.2552	-.1896	-.0922	-.0033	-.0751	.0793	-.1121			
105.000		.0028	-.0759	-.1168	-.1403	-.1365				
110.000										
120.000	-.1422	-.0313	.0510	-.0750	-.1655	-.1337	-.1359	-.1676		
135.000		.2937	-.0566	-.1978	-.1302	-.1748		-.1440		
150.000	-.0693	.0241	.1974	.0392	-.2165	-.2004	-.2115			
165.000	-.0479		.1456		-.1311	-.2379	-.1679			
180.000	-.0466	.0239	.1342	.3765						

ALPHA(5) = 7.900 BETA(4) = 4.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0680	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.0180	.5169	.0647	.0069	-.0561	.0000		-.1026	-.1019	-.1069	-.0704	-.0615	-.0121	.0139	
20.000		.0762	-.0294	-.0567	-.2747		-.2016	-.2167	-.1711	-.1633	-.1162	-.0627	.0175	.0657	
40.000		.0611	-.0493	-.0832	-.1762		-.2340	-.2495	-.2495						
55.000		.0751	-.0734	-.1369	-.1864		-.2385	-.2477	-.3294	-.2015	-.1163	-.0946			
70.000		.0693	-.0826	-.1619	-.1668		-.2663	-.2663	-.4195	-.3315	-.1962	-.1177	-.0777		
90.000	.0696	.0146	-.1067	-.1932	-.1677		-.2361	-.2361	-.5268	-.4085	-.3182	-.1031	-.0702		
120.000		.0654	-.1415	-.1223	-.0761				-.6300						
140.000		.0303	-.0079	-.0580	-.0158				-.6110	-.3913	-.2016	-.0934	-.0675		
151.000									-.3108						
156.000									.1246						
162.000									-.2827						
165.000									-.14420	-.3220	-.1679	-.0928	-.0765		
169.000									.2744						
174.000									.2510						
180.000	1.0980	.2327	.0623	.0326	.0037	.0561	.4663		-.18810	-.3241	-.1837	-.0979	-.0602		
X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0417	-.0039	-.0612	-.3054	-.2514	-.2329	-.1761		-.1116	-.1143					
40.000	.0934	.0031	.0123	-.3660	-.2472	-.1910	-.1323		-.0950	-.0954					
70.000	-.3121	-.2828	-.1622	-.0368	-.0897	-.0724	-.1049								
90.000	-.2294	-.1991	-.1392	-.0737	-.1260	-.1204	-.1541								
105.000		-.0780	-.1601	-.1743	-.1748	-.1665									
110.000															



ALPHAO (5) = 7.900 BETAO (4) = 4.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.1156	-.0655	-.0922	-.2544	-.2249	-.1739	-.1736	-.1775		
135.000		.4500	-.1194	-.2779	-.2101	-.2227				
150.000	-.0566	.0242	.2440	.0711	-.3354	-.2761	-.2866			
165.000	-.0625		.1354		-.2695	-.3082	-.2038			
180.000	-.0887	.0197	.1095	.2500						

ALPHAOX (5) = 7.860 BETAOX (5) = 0.170

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
.0000	.9058	.4185	-.0392	-.0686	-.1234	.0000		-.2135	-.2226	-.2107	-.1545	-.1180	-.0810	-.0618	
20.000		-.0631	-.1462	-.1555	-.3965		-.2366		-.2639	-.2563	-.1911	-.1186	-.0363	.0246	
40.000		-.1221	-.1916	-.2098	-.2821		-.3177		-.3004	-.3484	-.2029	-.1201	-.1049		
55.000		-.1331	-.2283	-.2636	-.2750		-.3063		-.3815	-.3490	-.1894	-.1097	-.0719		
70.000		-.1212	-.2271	-.2698	-.2593		-.3706		-.4753	-.4261	-.2909	-.0646	-.0992		
90.000		-.2005	-.1845	-.2558	-.3185	-.2617	-.3805		-.6969	-.6508	-.3830	-.2089	-.1799	-.0946	
120.000		-.0669	-.2223	-.2474	-.1763										
140.000		-.0669	-.0963	-.1561	-.1227										
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	.9098	.1240	.0019	-.0467	-.0695	-.0075	.3349	.1054		-.20370	-.3800	-.2362	-.1555	-.1379	
X/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	-.0842	-.0732	-.314	-.3296	-.3356	-.2511	-.1953								
40.000	.0050	-.0175	-.0173	-.4937	-.2761	-.2299	-.1830								
70.000	-.2894	-.2913	-.2196	-.1003	-.1409	-.1116	-.1313								
90.000	-.2182	-.2226	-.1916	-.1353	-.1663	-.1370	-.1726								
105.000		-.1421	-.2070	-.2226	-.2251	-.1917									
110.000															
120.000	-.1284	-.1021	-.0723	-.4320	-.2939	-.2317	-.2136	-.2030							
135.000			.3638	-.2263	-.4068	-.3067	-.2799								
150.000	-.1188	-.0349	.1248	-.0351	-.4771	-.3688	-.3264								
165.000	-.1188		.0714	-.4717	-.3868	-.2288									
180.000	-.1267	-.0439	.0547	.1076											

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 1A14 06+112+SIENES+AT11 ORB. FUSELAGE (R81835) (15 FEB 74)

REFERENCE DATA

SREP = 2.4210 50.FT. XMRP = 29.3600 INCHES
LREF = 36.7090 INCHES YMRP = .0000 INCHES
BREF = 36.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0500 SCALE

PARAMETRIC DATA

MACH = .750 ELEVSN = .000
RUDDER = .000 SPDRBK = .000

ALPHAO(1) = -6.050 BETAO (1) = -6.000

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1550	.1670	.1780	.2050	.3010	.3790	.4990	.5760
PHI	1.0670	.3365	-.0081	-.0775	-.0985	.0000	-.2256	-.3045	-.1749	-.1984	-.1351	-.1068	-.0617	-.0439
20.000	.0544	-.0094	-.0289	-.0162	-.2792	.0121	-.0617	-.2792	-.2044	-.2044	-.1252	-.0927	.0106	.0433
40.000	.2979	.0682	.1482	.0426	-.1050	.4832	.2606	-.1050	-.1375	-.1375	-.1765	-.0367	.0453	.0943
55.000	.5892	.3628	.2260	.1296	-.0236	.5892	.3628	-.0236	-.0236	-.0236	-.2161	-.1901	.0316	.0834
70.000	.6455	.6175	.4100	.2653	.1808	.6455	.6175	-.1774	-.1774	-.1895	-.2424	-.2231	-.0009	.0364
90.000	.6354	.4381	.3595	.3325	.3568	.6354	.4381	.2877	.2877	-.3684	-.3783	-.1498	-.0520	-.0102
120.000	.5335	.4175	.3488	.3568	.3568	.5335	.4175	.6176	.6176	-.9753	-.2649	-.1666	-.0791	-.0436
130.000	.5335	.4175	.3488	.3568	.3568	.5335	.4175	.6275	.6275	-.9753	-.2649	-.1666	-.0791	-.0436
156.000	.5335	.4175	.3488	.3568	.3568	.5335	.4175	.6275	.6275	-.9753	-.2649	-.1666	-.0791	-.0436
152.000	.5335	.4175	.3488	.3568	.3568	.5335	.4175	.6275	.6275	-.9753	-.2649	-.1666	-.0791	-.0436
165.000	.5335	.4175	.3488	.3568	.3568	.5335	.4175	.6275	.6275	-.9753	-.2649	-.1666	-.0791	-.0436
169.000	.5335	.4175	.3488	.3568	.3568	.5335	.4175	.6275	.6275	-.9753	-.2649	-.1666	-.0791	-.0436
174.000	.5335	.4175	.3488	.3568	.3568	.5335	.4175	.6275	.6275	-.9753	-.2649	-.1666	-.0791	-.0436
180.000	.5335	.4175	.3488	.3568	.3568	.5335	.4175	.6275	.6275	-.9753	-.2649	-.1666	-.0791	-.0436
X/LB	.6350	.7500	.7810	.6230	.8620	.9230	.9630	1.0020	1.0210	1.0480				
PHI	-.0804	-.0146	-.0154	-.1813	-.3608	-.3432	-.2956	-.2124	-.2053	-.2053				
40.000	-.0197	.0596	.2461	-.1369	-.5651	-.3326	-.2871	-.2457	-.2495	-.2495				
70.000	.0058	-.0094	.0378	.1608	.0562	.0320	-.0683							
90.000	.0341	.0400	.1087	.1997	.0361	-.0017	-.1132							
105.000	.1922	.1093	-.0038	-.0675	-.1288									
110.000	.0360	.1259	.4043	.1080	-.0228	-.0380	-.1001							
120.000	.0360	.1259	.4043	.1080	-.0228	-.0380	-.1001							
135.000	.0367	.1310	.2864	.1698	.0905	.0071	-.2142							
150.000	.0318	.2265	.1906	-.0135	-.3019									
165.000	-.0141	.0726	.2151	.3999										



ARC11-716 1A14 CR-712-S12MS-AT11 CRB, FUSELAGE (R01833)

ALPHA(1) = -0.040 BETA(2) = -3.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PHI															
.000	1.1310	.3633	.0247	-.0236	-.0278	.0000		-.1960		-.1716	-.1459	-.1043	-.0746	-.0470	-.0419
20.000			.0797	.0036	-.0079	-.1200		-.2607		-.1761		-.2271	-.1211	-.0855	.0183
40.000			.2323	.0375	-.0171	-.1360		-.2879		-.2271	-.1837	-.1211	-.0855	-.0065	.0183
55.000			.3613	.1907	.0484	-.0711		-.2065		-.2265					
70.000			.4472	.2207	.0941	.0001		-.1395		-.2615	-.2378	-.0604	.0134	.0746	
90.000		.6624	.4731	.2695	.1260	.0303		-.1966		-.3366	-.2638	-.1037	.0022	-.0612	
120.000			.5361	.3316	.2659	.2469		.0374		-.3208	-.3046	-.2594	-.0161	.0326	
140.000										-.3245					
150.000			.5146	.4010	.3262	.3336			.1811	-.4459	-.3216	-.1282	-.0248	.0180	
151.000								.5460							
156.000									.2594						
162.000										-1.0090	-.2257	-.1277	-.0354	.0023	
165.000															
169.000								.7632							
174.000															
190.000	1.1310	.7346	.4354	.3737	.3260	.3343		.5115		-1.3610	-.2155	-.1196	-.0465	.0000	
X/LB	.6260	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

ALPHA(1) = -0.040 BETA(3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PHI															
.000	1.1470	.3656	.0204	-.0087	-.0312	.0000		-.1729		-.1766	-.1445	-.0926	-.0591	-.0297	-.0349
20.000			.0799	-.0145	-.0263	-.2366		-.2763		-.1924		-.2297	-.1776	-.1101	-.0161
40.000			.1424	-.0083	-.0363	-.2063		-.3080		-.2297	-.1776	-.1101	-.0721	-.0161	-.0030
55.000			.2235	.0350	-.0349	-.1695		-.2697		-.2932					
70.000			.2930	.0753	-.0443	-.1117		-.2478		-.3392	-.2613	-.1112	-.0034	.0368	
90.000		.6649	.3236	.1142	-.0351	-.1021		-.2966		-.4517	-.3244	-.1317	-.0239	.0423	

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(R01835)

ARC11-716 1A14 01-712-S12E5-AT11 ORB. FUSELAGE

ALPHAO(1) = -8.040 BETA0 (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
120.000			.4146	.2072	.1379	.1106		-.1360		-.4732	-.3724	-.3246	-.0610	-.0010	
140.000										-.4127					
150.000			.4703	.3695	.2674	.2799		.0499		-.5120	-.2674	-.1991	-.0346	.0108	
151.000															
156.000								.4290							
162.000								.1533		-1.0740	-.2091	-.1272	-.0346	.0123	
165.000								.9866							
169.000							.7996								
174.000			.4627	.3943	.3403	.3501		.5724		-1.3990	-.1961	-.1027	-.0340	.0273	
180.000	1.1470	.7599	.6627	.5943	.5403	.5501									
X/LB	.6930	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0440					

PHI	.000	-.0415	-.0577	-.0846	-.2965	-.3216	-.2682	-.2315		-.1943	-.1649		-.1682	-.2022
110.000														
120.000	.0407	.0665	.0464	-.2962	-.2032	-.1865	-.2076	-.2304						
135.000			.9682	.0547	-.2043	-.1695	-.2319							
150.000	.0660	.1620	.4086	.2749	-.1493	-.1637	-.3033							
165.000	.0666		.3216	-.0767	-.1975	-.2745								
160.000	.0766	.1623	.2993	.5231										

ALPHAO(1) = -8.030 BETA0 (4) = 4.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1130	.14	-.0094	-.0071	-.0622	.0000		-.2066		-.1740	-.1694	-.1303	-.1023	-.0760	-.0773
20.000			.0087	-.0549	-.0727	-.3270		-.2755		-.2081					
40.000			.0413	-.0769	-.1223	-.2748		-.3131		-.2332	-.1874	-.1240	-.1015	-.0391	-.0323
55.000			.0875	-.0740	-.1476	-.2443		-.3300		-.3193					
70.000			.1375	-.0629	-.1997	-.2096		-.3564		-.4167	-.3017	-.1240	-.0220	.0418	
90.000	.2606	.1624	-.0397	-.1842	-.2209		-.4220			-.9425	-.3998	-.1501	-.0484	.0236	
120.000		.2626	.0602	-.0196	-.0255		-.3216			-.5966	-.4405	-.3961	-.1342	-.0369	
140.000										-.4605					
150.000		.3773	.2914	.2036	.1637					-.7346	-.2896	-.1725	-.0760	-.0276	
151.000															
156.000								.2615							
159.000															
162.000															



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TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-718 1A14 CR-T12-S12E3-AT11 CRB. FUSELAGE (RB1855)

ALPHAO(1) = -0.090 BETAO (4) = 4.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

1/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
165.000								.5131							
169.000							.6739								
174.000															
180.000	1.1150	.6961	.4751	.3603	.3292	.3345									

1/LB .6530 .7500 .7610 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI															
.000															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHAO(1) = -0.090 BETAO (5) = 6.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

1/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
156.000															
165.000															
169.000															
174.000															
180.000															

-.2953

.0927

-.1305

-.2928

.3928

.4175

.9904

1.0820

1.0480

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TABLATED PRESSURE DATA - 1A14A - VOL. 3

(R61835)

ALPHAO(1) = -8.000 BETA0(5) = 0.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6930	.7500	.7810	.8230	.8680	.9230	.9630	1.0020	1.0210	1.0400
PHI										
.000	-.1335	-.1461	-.1699	-.3241	-.3954	-.5237	-.2769		-.2256	-.1943
40.000	-.1999	-.1481	-.0793	-.5182	-.3744	-.2600	-.2388		-.2028	-.1975
70.000	-.0346	-.1230	-.1701	-.0532	-.1571	-.1364	-.1648			
90.000	-.0630	-.1390	-.1967	-.1379	-.2087	-.1838	-.2026			
105.000		-.1347	-.2504	-.2668	-.2367	-.2201				
110.000										-.2412
120.000	-.0362	-.0682	-.4136	-.7714	-.3730	-.3157	-.3032			-.2367
135.000			.4078	-.3674	-.6206	-.3004	-.4296			
150.000	-.0829	.0286	3.793	2803	-.5679	-.4346	-.3690			
165.000	-.0399		.2574		-.4200	-.4666	-.2696			
180.000	-.0139	.0705	.2173	.4007						

ALPHAO(2) = -4.070 BETA0(1) = -0.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.0740	.3991	.0168	-.0758	-.0395	.0000		-.2195		-.1692	-.1674	-.1264	-.0916	-.0312	-.0047
20.000		.0898	.0360	-.0203	-.0190			-.2949		-.1696					
40.000		.3475	.0991	.0344	-.0414			-.2475		-.1694	-.1609	-.1138	-.0733	.0339	.0830
55.000		.3165	.2878	.1760	.0885			-.0832		-.1186					
70.000		.9915	3.362	2243	1226			-.0108		-.1980	-.2012	-.0738	.0102	.0468	
90.000	.6187	.5784	.3738	.2233	.1640			-.0349		-.2184	-.2179	-.0868	.0017	.0390	
120.000		.5680	.3614	.2920	.2781			.1472		-.2273	-.3536	-.2763	-.0659	-.0427	
140.000		.4279	.3168	.2323	.2770					-.2885					
150.000								.2354		-.4516	-.4655	-.1944	-.0944	-.0654	
151.000								.5766							
156.000										.2655					
162.000															
165.000															
168.000															
174.000															
180.000	1.0740	.6017	.2953	.2238	.2009	.2181		.3322		-.14430	-.2976	-.1902	-.1239	-.0946	
X/LB	.6930	.7500	.7810	.8230	.8680	.9230	.9630	1.0020	1.0210	1.0400					

X/LB	.6930	.7500	.7810	.8230	.8680	.9230	.9630	1.0020	1.0210	1.0400
PHI										
.000	.0291	.0805	.0084	-.1489	-.3682	-.3303	-.2856		-.1993	-.1848
40.000	.0404	.1032	.2770	-.1077	-.3237	-.3083	-.2774		-.2400	-.2376
70.000	-.1013	-.0912	.0065	.1437	.0365	.0256	-.0716			
90.000	-.0993	-.0336	.0473	.1432	.0177	-.0162	-.1224			
105.000		.1649	.0931	-.0246	-.0798	-.1370				
110.000										-.2881



(MS1035)

ARC11-716 1A14 OI-TI8+SI2E5-A711 ORB. PUSBLAGE

ALPHA (2) = -4.070 BETA (1) = -0.040

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0380	.7500	.7610	.8230	.8230	.9230	.9230	.9630	1.0020	1.0210	1.0480
PWT											
120.000	-.0682	.0417	.3928	.0941	-.0439	-.0229	-.1083	-.1063			
135.000			.4292	.0591	-.0317	-.1423					
150.000	-.0444	.0987	.2139	.0931	.0490	-.0223	-.2197				
165.000	-.0460		.1751		.1452	-.0486	-.3039				
180.000	-.0376	.0281	.1732	.3079							

ALPHA (2) = -4.080 BETA (2) = -4.000

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0730	.1120	.1590	.1670	.2030	.2220	.3010	.3790	.4990	.5760
PWT														
20.000	1.1380	.6451	.0490	-.0108	-.0239	.0000		-.1622	-.1992	-.1420	-.1013	-.0773	-.0309	-.0093
40.000			.1142	-.0111	-.0036	-.1079		-.2666	-.1690	-.1749	-.1146	-.0781	.0076	.0319
60.000			.2703	.0662	.0092	-.1106		-.2729	-.2049	-.2039				
80.000			.3654	.1884	.0969	-.0368		-.1705	-.2600	-.2539	-.1115	-.0195	.0233	
100.000			.4474	.2179	.0910	.0137		-.1225	-.3294	-.275A	-.1287	-.0323	.0233	
120.000			.6284	.4461	.2315	.1145	.0266	-.1403	-.3599	-.3417	-.2934	-.0506	-.0033	
140.000			.4610	.2963	.2100	.2011		.0398	-.3864					
160.000			.4237	.3198	.2540	.2631			-.3097	-.3923	-.1748	-.0821	-.0199	
180.000								.9143						
196.000								.1992						
162.000									-.10970	-.2712	-.1633	-.0679	-.0335	
169.000														
174.000														
180.000	1.1330	.6987	.3682	.2620	.2473	.2399	.7211		-.14630	-.2424	-.1433	-.0724	-.0340	

W/LB	.0000	.7300	.7610	.8230	.8230	.9230	.9230	.9630	1.0020	1.0210	1.0480
PWT											
40.000	.0113	.0079	-.0210	-.2010	-.3037	-.2923	-.2324				
60.000	-.0028	.0301	.2110	-.1681	-.4688	-.2629	-.2216				
80.000	-.1063	-.1218	-.0456	.0762	-.0130	-.0171	-.0942				
100.000	-.0006	-.0373	.0073	.0426	-.0427	-.0387	-.1417				
120.000			.0990	-.0099	-.0871	-.1216	-.1367				
140.000											
160.000	-.0161	.0907	.2399	-.0229	-.1101	-.1033	-.1483				
180.000	.0971	.1114	.2902	.1614	-.0600	-.1072	-.2341				
166.000	.0876	.2403	.0186	-.1251	-.2748						
169.000	.0077	.0966	.2313	.3922							

ORIGINAL PAGE IS
QUALITY

ARC11-716 1A14 CR-T112-2102S-AT11 CRG. PUSBLAGE (R61855)

ALPHAO1 E1 = -4.000 BETA0 (3) = .040

SECTION (1) ONE-ITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0040	.0230	.0470	.0700	.1120	.1790	.1670	.2050	.2320	.3010	.3790	.4990	.5760
PH1														
.000	1.1470	.4499	.0458	-.0163	-.0177	.0000	-.1916	-.1965	-.1421	-.0923	-.0607	-.0194	-.0113	
20.000			.0868	.0038	-.0128	-.2193	-.2471	-.1716	-.1636	-.1145	-.0625	-.0072	.0307	
40.000			.1735	.103	-.0423	-.1603	-.2711	-.2161	-.2717	-.2174	-.1336	-.0360	.0137	
59.000			.2433	.0919	-.0389	-.1326	-.2278	-.3405	-.2974	-.1499	-.0304	.0142		
70.000			.2992	.0758	-.0415	-.0943	-.2677	-.4320	-.3264	-.1499	-.0304	.0142		
90.000	.4578	.3045	.1078	-.0209	-.0843	-.2677	-.4692	-.4892	-.3843	-.3138	-.0586	-.0092		
120.000		.3651	.1473	.1035	.1005	-.1167	-.4610	-.5643	-.3400	-.1670	-.0386	-.0097		
140.000		.3842	.2062	.2151	.2180		.0130							
171.000							.4019							
176.000							.1029							
182.000														
189.000														
174.000	1.1470	.6947	.3842	.3060	.2604	.2619	.5217	-.14760	-.2139	-.1246	-.0334	-.0087		
160.000	.6880	.7900	.7610	.6230	.6620	.9230	.9630	1.0210	1.0210	1.0480				

ALPHAO1 E1 = -4.000 BETA0 (4) = 4.000

SECTION (1) ONE-ITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0040	.0230	.0470	.0700	.1120	.1790	.1670	.2050	.2320	.3010	.3790	.4990	.5760
PH1														
.000	1.1470	.4499	.0458	-.0163	-.0177	.0000	-.1916	-.1965	-.1421	-.0923	-.0607	-.0194	-.0113	
20.000			.0868	.0038	-.0128	-.2193	-.2471	-.1716	-.1636	-.1145	-.0625	-.0072	.0307	
40.000			.1735	.103	-.0423	-.1603	-.2711	-.2161	-.2717	-.2174	-.1336	-.0360	.0137	
59.000			.2433	.0919	-.0389	-.1326	-.2278	-.3405	-.2974	-.1499	-.0304	.0142		
70.000			.2992	.0758	-.0415	-.0943	-.2677	-.4320	-.3264	-.1499	-.0304	.0142		
90.000	.4578	.3045	.1078	-.0209	-.0843	-.2677	-.4692	-.4892	-.3843	-.3138	-.0586	-.0092		
120.000		.3651	.1473	.1035	.1005	-.1167	-.4610	-.5643	-.3400	-.1670	-.0386	-.0097		
140.000		.3842	.2062	.2151	.2180		.0130							
171.000							.4019							
176.000							.1029							
182.000														
189.000														
174.000	1.1470	.6947	.3842	.3060	.2604	.2619	.5217	-.14760	-.2139	-.1246	-.0334	-.0087		
160.000	.6880	.7900	.7610	.6230	.6620	.9230	.9630	1.0210	1.0210	1.0480				

ALPHAO1 E1 = -4.000 BETA0 (4) = 4.000

SECTION (1) ONE-ITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0040	.0230	.0470	.0700	.1120	.1790	.1670	.2050	.2320	.3010	.3790	.4990	.5760
PH1														
.000	1.1470	.4499	.0458	-.0163	-.0177	.0000	-.1916	-.1965	-.1421	-.0923	-.0607	-.0194	-.0113	
20.000			.0868	.0038	-.0128	-.2193	-.2471	-.1716	-.1636	-.1145	-.0625	-.0072	.0307	
40.000			.1735	.103	-.0423	-.1603	-.2711	-.2161	-.2717	-.2174	-.1336	-.0360	.0137	
59.000			.2433	.0919	-.0389	-.1326	-.2278	-.3405	-.2974	-.1499	-.0304	.0142		
70.000			.2992	.0758	-.0415	-.0943	-.2677	-.4320	-.3264	-.1499	-.0304	.0142		
90.000	.4578	.3045	.1078	-.0209	-.0843	-.2677	-.4692	-.4892	-.3843	-.3138	-.0586	-.0092		
120.000		.3651	.1473	.1035	.1005	-.1167	-.4610	-.5643	-.3400	-.1670	-.0386	-.0097		
140.000		.3842	.2062	.2151	.2180		.0130							
171.000							.4019							
176.000							.1029							
182.000														
189.000														
174.000	1.1470	.6947	.3842	.3060	.2604	.2619	.5217	-.14760	-.2139	-.1246	-.0334	-.0087		
160.000	.6880	.7900	.7610	.6230	.6620	.9230	.9630	1.0210	1.0210	1.0480				

ALPHAO1 E1 = -4.000 BETA0 (4) = 4.000

SECTION (1) ONE-ITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0040	.0230	.0470	.0700	.1120	.1790	.1670	.2050	.2320	.3010	.3790	.4990	.5760
PH1														
.000	1.1470	.4499	.0458	-.0163	-.0177	.0000	-.1916	-.1965	-.1421	-.0923	-.0607	-.0194	-.0113	
20.000			.0868	.0038	-.0128	-.2193	-.2471	-.1716	-.1636	-.1145	-.0625	-.0072	.0307	
40.000			.1735	.103	-.0423	-.1603	-.2711	-.2161	-.2717	-.2174	-.1336	-.0360	.0137	
59.000			.2433	.0919	-.0389	-.1326	-.2278	-.3405	-.2974	-.1499	-.0304	.0142		
70.000			.2992	.0758	-.0415	-.0943	-.2677	-.4320	-.3264	-.1499	-.0304	.0142		
90.000	.4578	.3045	.1078	-.0209	-.0843	-.2677	-.4692	-.4892	-.3843	-.3138	-.0586	-.0092		
120.000		.3651	.1473	.1035	.1005	-.1167	-.4610	-.5643	-.3400	-.1670	-.0386	-.0097		
140.000		.3842	.2062	.2151	.2180		.0130							
171.000							.4019							
176.000							.1029							
182.000														
189.000														
174.000	1.1470	.6947	.3842	.3060	.2604	.2619	.5217	-.14760	-.2139	-.1246	-.0334	-.0087		
160.000	.6880	.7900	.7610	.6230	.6620	.9230	.9630	1.0210	1.0210	1.0480				



TABLATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 OR-T12-S12E5-AT11 CRB. FUELAGE (8B1855)

ALPHA(X) Z1 = -4.080 BETA(O) (4) = 4.080

SECTION (11) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1980	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.3760
PHI															
120.000		.2247	.0260	-.0426	-.0232		-.2910			-.6074	-.4328	-.3513	-.0917	-.0397	
140.000										-.3090					
150.000		.3004	.2060	.1332	.1337					-1.0010	-.3166	-.1838	-.0035	-.0399	
171.000										-.1419					
196.000										.2960					
162.000										-.0296					
166.000															
189.000															
174.000															
190.000	1.1160	.5975	.3794	.2932	.2426	.2025	.6363	.4713	.4911	-1.4870	-.2335	-.1436	-.0688	-.0293	
X/LB	.6690	.7300	.7610	.6230	.6620	.6250	.9630	1.0020	1.0210	1.0460					

ALPHA(X) Z2 = -4.080 BETA(O) (9) = 8.150

SECTION (11) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1980	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.3760
PHI															
120.000		.2247	.0260	-.0426	-.0232		-.2910			-.6074	-.4328	-.3513	-.0917	-.0397	
140.000										-.2714					
150.000		.3004	.2060	.1332	.1337					-.2775	-.2978	-.1962	-.1653	-.0779	-.0376
171.000										-.3403					
196.000										-.4485	-.3250	-.1496	-.0606	-.0101	
162.000										-.5740	-.3621	-.1983	-.0819	-.0224	
166.000										-.0695	-.4743	-.4012	-.1508	-.0796	
189.000										-1.1340					
174.000															
190.000	1.1332	.6699	.6230	.6230	.6171					-1.4190	-.3235	-.2237	-.1505	-.1047	
X/LB	.6690	.7300	.7610	.6230	.6620	.6250	.9630	1.0020	1.0210	1.0460					

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DATE 09 DEC 74 TABULATED PFCESURE DATA - IAI14A - VOL. 3

ARC11-716 IAI14 CR1712-312829-AT11 CR8. PURLAGE

0818321

ALPHA03 = -4.090 BETA0 (3) = 0.130

SECTION (1) ORBITER PURLAGE	DEPENDENT VARIABLE CP
W/LB	.0000 .0000 .0230 .0470 .0700 .1120 .1360 .1670 .2030 .2520 .3010 .3790 .4990 .5760

-1.3670 -.2773 -.2123 -.1378 -.1065

PHI 105.000 .3561

109.000 .3177

114.000 .3027

120.000 .3004 -.2026 -.1361 -.0990

W/LB .0630 .7300 .7610 .0230 .0470 .0920 .0630 .9630 1.0020 1.0210 1.0490

PHI .0000 -.0799 -.0949 -.1323 -.2991 -.3622 -.3140 -.2703

40.000 -.0805 -.0961 -.0356 -.4678 -.3790 -.2698 -.2334

70.000 -.0963 -.1048 -.2002 -.0934 -.2117 -.1320 -.1396

90.000 -.0737 -.1460 -.2094 -.1762 -.2097 -.1834 -.1966

105.000 -.1573 -.3136 -.2961 -.2304 -.2131

110.000 -.2140

120.000 -.0688 -.0911 -.3742 -.7567 -.3638 -.3095 -.2804

135.000 .3717 .3371 .3973 .4729 .4037

150.000 -.0672 .0093 .3399 .2426 .0241 .4542 .3632

165.000 -.0861 .2277

190.000 -.0673 .0249 .1761 .3546

ALPHA03 = -.310 BETA0 (3) = -0.080

SECTION (1) ORBITER PURLAGE	DEPENDENT VARIABLE CP
W/LB	.0000 .0000 .0230 .0470 .0700 .1120 .1360 .1670 .2030 .2520 .3010 .3790 .4990 .5760

PHI .0000 1.0460 .4598 .0914 -.0953 -.0440 .0000

20.000 .2710

40.000 .2114

95.000 .0180

10.000 .1363

90.000 .0040

120.000 .1349

140.000 .2037

150.000 .2015

191.000 .3477

182.000 .2126

165.000 .3362

169.000 .2710

190.000 .0881

194.000 .2710

190.000 1.0460 .9101 .2018 .1426 .1176 .1905

190.000 .6006 .7300 .7610 .0230 .0470 .0630 .9630 1.0020 1.0210 1.0490

190.000 .1831 -.1366 -.1228 -.0823 -.0134 .0274

190.000 .1491 -.1394 -.0978 -.0329 .0394 .1232

190.000 .0878

190.000 .2116 .0957 -.0116 .0063

190.000 .1996 .2203 .1093 -.0361 .0053

190.000 .2514 .3006 .3528 .1439 .1367

190.000 .3315

190.000 .3037 .9410 .2437 .1461 .1153

190.000 .2015

190.000 .2126

190.000 .11900 .3670 .2345 .1462 .1243

190.000 .14690 .3709 .2090 .1390 .1179



DATE 09 DEC 74 TANKED MEASURE DATA - 1A14A - VOL. 3

MFC11-716 1A14 OL-712-3125-AT11 CRG. PURCHASE (M81833)

ALPHAO1 3) = -.310 BETAO (1) = -0.000

SECTION (1) ORBITER PURCHASE DEPOSIT VARIABLE CP

W/LB	.6000	.7000	.7810	.8270	.8420	.9230	.9430	1.0000	1.0210	1.0400
PMT										
.000	.2072	.0473	.0004	-.1416	-.3047	-.5116	-.2702		-.1993	-.1792
40.000	.0993	.1339	.2872	-.1091	-.4906	-.3006	-.2486		-.2230	-.2232
70.000	-.2016	-.1601	-.0204	1.433	.0467	.0395	-.0710			
90.000	-.1919	-.1016	.0439	1.393	.0245	.0027	-.1053			
105.000		.1929	.1266	-.0236	-.0715	-.1265				
110.000							-.2142			
120.000	-.1793	-.0304	.0007	.1226	-.0400	-.0539	-.1027	-.1394		
135.000				.3425	-.0236	-.0702	-.0534	-.1396		
150.000	-.1078	.0135	1.302	.0229	.0276	-.0327	-.2064			
165.000	-.0756		.1263		.270	-.0575	-.2949			
180.000	-.0908	-.0208	.1390	.2388						

ALPHAO1 3) = -.380 BETAO (2) = -4.010

SECTION (1) ORBITER PURCHASE DEPOSIT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1700	.2030	.2500	.3010	.3790	.4990	.5760
PMT															
.000	1.1300	.4906	.0913	-.0097	-.0195	.0000		-.1641		-.1482	-.1353	-.0936	-.0710	-.0076	.0239
20.000		.1474	.0332	.0176	-.0927			-.2478		-.1372		-.1796	-.1105	-.0713	.0273
40.000		.3116	.0967	.0415	-.0762			-.2325		-.1706	-.1694	-.1105	-.0713	.0273	.0484
90.000		.4166	.2035	.0914	-.0034			-.1306		-.1806		-.2444	-.2740	-.1332	-.0447
70.000		.4539	.2290	.1055	.0255			-.1045		-.2444	-.2740	-.1332	-.0447	-.0126	
90.000	.6442	.4229	.2290	.0948	.0493			-.1267		-.3193	-.2838	-.1468	-.0545	-.0113	
120.000		.4271	.2243	.1933	.1701			.0375		-.3725	-.3022	-.3232	-.0931	-.0679	
140.000								-.4236		-.5445	-.4683	-.2074	-.0908	-.0576	
150.000		.3361	.2336	.1746	.2047			.1093							
191.000								.4679							
196.000															
198.000															
199.000															
199.000															
199.000															
199.000															
199.000															

W/LB	.6000	.7000	.7810	.8270	.8420	.9230	.9430	1.0000	1.0210	1.0400
PMT										
.000	.0926	.0297	.0033	-.1608	-.2063	-.2430	-.2303		-.1882	-.1796
40.000	.6471	.0246	.2301	-.1539	-.4549	-.2323	-.2229		-.1680	-.2029
70.000	-.2042	-.1937	-.0734	.0768	-.0140	-.0018	-.0796			
90.000	-.1382	-.1264	-.0162	.0593	-.0366	-.0493	-.1311			
105.000		.0778	-.0044	-.0870	-.1213	-.1327				

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ALPHA(X) S = -.350 BETA(X) S = -4.010

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/L S	.0000	.7500	.7510	.0230	.0430	.0230	.9430	1.0000	1.0210	1.0400
PHI										
120.000	-.0965	.0004	.2793	-.0042	-.1791	-.1024	-.1337	-.1756		
135.000			.4309	.0134	-.1199	-.0971	-.1706			
150.000	-.0777	.0645	.2434	.0975	-.0843	-.1165	-.2434			
165.000	-.0344		.1972		-.0036	-.1407	-.2670			
180.000	-.0331	.0432	.1917	.3234						

ALPHA(X) S = -.350 BETA(X) S = .050

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/L S	.0000	.0090	.0230	.0470	.0750	.1120	.1590	.1670	.1760	.2050	.2350	.3010	.3790	.4990	.5760
PHI															
.000	1.1480	.5083	.0771	-.0064	-.0112	.0000		-.1431		-.1509	-.1379	-.0979	-.0408	.0070	.0276
20.000			.1186	-.0079	-.0008	-.2015		-.2269		-.1997					
40.000			.2044	.0338	-.0226	-.1671		-.2472		-.2007	-.1843	-.1193	-.0693	.0111	.0369
60.000			.2815	.0722	-.0295	-.1176		-.2394		-.2409					
80.000			.3501	.0826	-.0308	-.0947		-.2069		-.3279	-.3169	-.1570	-.0565	-.0163	
100.000	.4417		.2350	.0837	-.0241	-.0697		-.2454		-.4216	-.3315	-.1602	-.0394	-.0182	
120.000			.3000	.0972	.0700	.0027		-.0937		-.3037	-.4017	-.3011	-.0677	-.0714	
140.000			.3027	.2097	.1326	.1699				-.4831	-.4036	-.1719	-.0677	-.0268	
160.000															
180.000															
196.000															
182.000															
165.000															
149.000															
174.000															
190.000	1.1480	.5461	.2960	.2253	.1802	.2164	.0671	.4768		-1.3510	-.3061	-.1575	-.0682	-.0355	
190.000	.0980	.7200	.7510	.0230	.0600	.0230	.9400	1.0000	1.0210	1.0400					

PHI

.000	.0347	.0078	-.0411	-.2713	-.2040	-.2377	-.2265								
40.000	.0137	.0301	.1379	-.2792	-.4302	-.2377	-.1929								
70.000	-.1831	-.8226	-.1236	-.0005	-.0687	-.0556	-.1098								
90.000	-.1275	-.1360	-.0763	-.0333	-.0909	-.1041	-.1917								
105.000			-.0032	-.1292	-.1436	-.1373	-.1730								
110.000															
120.000	-.0984	.0064	.0263	-.1929	-.1930	-.1645	-.1719	-.1943							
135.000			.4208	.0159	-.2093	-.1748	-.2115								
150.000	-.0121	.0797	.2940	.1503	-.2046	-.2101	-.2575								
165.000	-.0125		.2232			-.1363	-.2333	-.2313							
180.000	-.0093	.0415	.2008	.4355											



TABLULATED PRESSURE DATA - 1A14A - VOL. 3

(R81835)

ARC11-716 1A14 01-712-SIZES-AT11 CRG. FUELRAGE

ALPHAOI 3) = -.888 BETAO (4) = 4.080

SECTION (1) CRIBTER FUELRAGE DEPENDANT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	1.1130	.4677	.0407	-.0155	-.0487	.0000	-.1604	-.1804	-.1570	-.1572	-.1266	-.0877	-.0417	-.0195	
20.000		.0919	-.0361	-.0606	-.3137	-.2435	-.1943	-.2230	-.2039	-.1441	-.0877	-.0169	.0271		
40.000		.0708	-.0377	-.1003	-.2537	-.3046	-.3072	-.4002	-.3394	-.1641	-.0709	-.0242			
55.000		.0968	-.0708	-.1467	-.2068	-.2922	-.3072	-.4002	-.3394	-.1641	-.0709	-.0242			
70.000		.1255	-.0814	-.1649	-.1821	-.3575	-.3072	-.4002	-.3394	-.1641	-.0709	-.0242			
90.000		.2136	-.1221	-.0463	-.1567	-.1913	-.3575	-.4002	-.3394	-.1641	-.0709	-.0242			
120.000		.1691	.0014	-.0630	-.0256	-.2536	-.3072	-.4002	-.3394	-.1641	-.0709	-.0242			
140.000		.2348	.1406	.0669	.0931	-.1803	-.1090	-.3724	-.1934	-.0623	-.0506				
150.000						.2457	-.1803								
151.000							-.0631								
162.000							-.1060	-.3355	-.1660	-.0691	-.0585				
165.000															
169.000						.4351									
174.000							.6082								
180.000	1.1130	.5042	.2919	.1222	.1694	.2002	.4446								
X/LB	.6730	.7900	.7610	.6730	.6620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.0124	-.0148	-.0688	-.2960	-.3152	-.2643	-.2224	-.1737	-.1642						
40.000	-.0165	-.0246	.0092	-.4179	-.3339	-.2233	-.1857	-.1486	-.1603						
70.000	-.1773	-.2211	-.1790	-.0627	-.1232	-.0964	-.1363								
90.000	-.1199	-.1334	-.1503	-.1135	-.1591	-.1421	-.1743								
105.000		-.0934	-.1930	-.2053	-.1933	-.1974									
110.000		-.0676	-.0446	-.4105	-.2514	-.2386	-.2234	-.2249							
120.000		.4357	-.0919	-.3537	-.2874	-.2869	-.2146								
135.000		-.0300	.0360	.2923	.1865	-.3209	-.3240								
150.000		-.0300	.0360	.2923	.1865	-.3209	-.3240								
165.000		-.0300	.0360	.2923	.1865	-.3209	-.3240								
180.750	-.0294	.0578	.1947	.3522	-.2843	-.3515	-.2307								

ALPHAOI 3) = -.888 BETAO (5) = 6.130

SECTION (1) CRIBTER FUELRAGE DEPENDANT VARIABLE CP

X/LB	.0080	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	1.0220	.3911	-.0395	-.0778	-.1043	.0000	-.2806	-.2806	-.2590	-.2349	-.2030	-.1349	-.1163	-.0688	
20.000		-.0396	-.1361	-.1366	-.4939	-.2703	-.2703	-.2806	-.2590	-.2349	-.2030	-.1349	-.1163	-.0688	
40.000		-.0878	-.1900	-.2017	-.3403	-.3106	-.3106	-.2806	-.2590	-.2349	-.2030	-.1349	-.1163	-.0688	
55.000		-.0793	-.2033	-.2544	-.2927	-.3590	-.3590	-.3398	-.3398	-.3106	-.2806	-.2151	-.1963	-.0869	-.0112
70.000		-.0469	-.2023	-.2682	-.2596	-.3619	-.3619	-.4432	-.4432	-.3361	-.1712	-.0874	-.0369		
90.000		-.0649	-.0316	-.1935	-.3193	-.2781	-.4570	-.4570	-.5091	-.3736	-.1703	-.0836	-.0306		

ARC11-716 1A14 ORBITER FUSELAGE (R01835)

ALPHA(3) = -.320 BETA(5) = 0.130

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
120.000			.0266	-.1485	-.2109	-.1812		-.4260		-.7113	-.4626	-.3466	-.1210	-.0727	
140.000										-1.1540					
150.000			.0677	.0466	-.0324	-.0160				-1.4670	-.4036	-.2116	-.1356	-.1075	
151.000															
156.000								.0604							
162.000															
165.000															
169.000															
174.000							.4670								
180.000	1.0250	.4049	.2215	.1466	.1096	.1519		.3143		-1.6130	-.3369	-.2111	-.1495	-.1131	
W/LB	.6530	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000			-.0475	-.0716	-.1066	-.2945	-.3686	-.3032	-.2776						
40.000			-.0390	-.0496	-.0081	-.4756	-.3686	-.2572	-.2262						
70.000			-.1621	-.2343	-.2290	-.1111	-.1725	-.1331	-.1464						
90.000			-.1200	-.1729	-.2071	-.1878	-.2160	-.1905	-.1929						
105.000															
110.000															
120.000			-.0491	-.0801	-.3025	-.6771	-.3714	-.2968	-.2614						
135.000															
150.000			-.0867	-.0049	.2869	.2130	-.6366	-.4640	-.3659						
165.000			-.0677												
180.000	-.0846	-.0076	.1413	.3086											

ALPHA(4) = 4.050 BETA(1) = -6.060

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000			1.0590	.5104	.0755	-.0635	-.0466	.0000		-.1942	-.1462	-.1081	-.0645	.0143	.0647
20.000															
40.000															
55.000															
70.000															
90.000			.7636												
120.000															
140.000															
150.000															
156.000															
162.000															



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 01*112*SIZE25*AT11 CRB. FUSELAGE (RB1855)

ALPHAO (4) = 4.020 BETAO (1) = -8.080

SECTION (1) CRBITTER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI																
165.000									.4946							
168.000																
174.000																
180.000		1.0510	.4072	.0946	.0590	.0585	.0627	.6185	.2161							
X/LB		.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI																
.000		.1093	.0756	.0485	-.1329	-.3468	-.3013	-.2681								
40.000		.1480	.1770	.3149	-.0913	-.3136	-.3136	-.2790								
70.000		-.3282	-.2364	-.0415	.1401	.0782	.0329	-.0326								
90.000		-.2801	-.1756	.0240	.1420	.0371	.0069	-.0924								
105.000			.1327	.1420	-.0145	-.0679	-.1145									
110.000																
120.000		-.3282	-.1271	.4030	.1414	-.0681	-.0647	-.1007								
135.000			.2570	-.1286	-.1255	-.0895	-.1848									
150.000		-.1672	-.0313	.0911	-.0556	.0045	-.0461	-.2060								
165.000		-.1369	.0871		.1029	-.0700	-.2844									
180.000		-.1119	-.0229	.1054	.1786											

-1.2220 - .5380 - .2616 - .1701 - .1905
 -1.6100 - .5444 - .2134 - .1516 - .1224

-1.688 - .1637
 -.2116 - .2162

-.2105
 -.1568

ALPHAO (4) = 4.020 BETAO (2) = -4.030

SECTION (1) CRBITTER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI																
.000		1.1190	.9612	.1050	.0005	-.0167	.0000									
20.000		.1849	.0476	.0134	-.0760											
40.000		.3905	.1195	.0909	-.0636											
55.000		.4303	.2115	.1033	-.0007											
70.000			.4417	.2224	.0566	.0356										
90.000		.9866	.4072	.2120	.0619	.0421										
120.000			.3903	.1471	.0599	.1196										
140.000			.2325	.1411	.0879	.1374										
151.000																
158.000																
162.000																
165.000																
168.000																
174.000		1.1190	.4401	.1633	.1190	.0664	.1309									
180.000		.6530	.7500	.7610	.8230	.8620	.9250	.9630	1.0020	1.0210	1.0480					

-.1343 - .1214 - .0810 - .0403 - .0237 - .0643
 -.1380
 -.1545 - .1414 - .0949 - .0408 - .0888 - .1358
 -.1587
 -.2338 - .2824 - .1564 - .0631 - .0395
 -.3102 - .2997 - .1639 - .0784 - .0377
 -.3969 - .4339 - .3786 - .1574 - .1453
 -.4764
 -.5856 - .5441 - .2238 - .1036 - .0841

.0791

.1038

.4803

.9016

.3614

.6323

.1017 - .0756

-.1311 - .0907 - .0643

(R81895)

ARC11-716 1A14 01-112-S12M5-AT11 CRB. FUSELAGE

ALPHAO(4) = 4.020 BETAO (2) = -4.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE C*

X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0963	.0677	.0208	-.1826	-.3040	-.2734	-.2373		-.1611	-.1560
40.000	.1031	.1339	.2648	-.1428	-.4723	-.2742	-.2357		-.1844	-.1946
70.000	-.3099	-.2666	-.1043	.0814	-.0030	.0072	-.0574			
90.000	-.2357	-.1863	-.0337	.0647	-.0290	-.0358	-.1134			
105.000		.0729	.0167	-.0770	-.1087	-.1358				
110.000										-.2063
120.000	-.1973	-.0967	.2544	.0161	-.1182	-.0994	-.1264			-.1645
135.000		.3644	-.0309	-.1403	-.1079	-.1773				
150.000	-.0919	.0224	.1927	.0366	-.1017	-.1193	-.2117			
165.000	-.0730		.1570		-.0282	-.1477	-.2388			
180.000	-.0371	.0290	.1328	.2496						

ALPHAO(4) = 4.020 BETAO (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.3760
PHI															
.000	1.1320	.9692	.1078	.0085	-.0131	.0000		-.1365		-.1329	-.1103	-.0638	-.0248	.0253	.0807
20.000		.1477	.0066	.0015	-.1940		-.2218		-.1491		-.1838	-.1093	-.0462	.0375	.1008
40.000		.2332	.0435	-.0112	-.1996		-.2315		-.2341		-.2341				
55.000		.2636	.0691	-.0325	-.1186		-.2136		-.1974		-.3166	-.3254	-.1740	-.0827	-.0530
70.000		.2734	.0732	-.0393	-.0878		-.2274		-.4137	-.3386	-.1867	-.0840	-.0390		
90.000		.3961	.2424	.0545	-.0686	-.0674	-.0968		-.5129	-.4267	-.3282	-.0969	-.0697		
120.000		.2543	.0368	.0112	.0341				-.5481						
140.000		.2136	.1194	.0554	.1105				-.6911	-.484E	-.1849	-.0779	-.0498		
150.000									-.0456						
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.1320	.4376	.1862	.1329	.1001	.1323									
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0769	.0472	-.0165	-.2607	-.2849	-.2350	-.2172		-.1540	-.1571					
40.000	.0688	.0707	.1346	-.2420	-.4051	-.2441	-.1932		-.1583	-.1731					
70.000	-.2733	-.2827	-.1629	.0048	-.0361	-.0870									
90.000	-.2094	-.1911	-.0968	-.0307	-.0958	-.0873	-.1403								
105.000			-.0082	-.1236	-.1379	-.1466	-.1564								
110.000															



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(RB1855)

ARC11-716 1A14 OR-T12+S12E25+AT11 ORG. FUSELAGE

ALPHA(4) = 4.080 BETA(5) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6330	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.1196	-.0337	.0553	-.1234	-.1136	-.1465	-.1607	-.1803		
135.000			.3999	-.0148	-.1044	-.1622	-.1965			
150.000	-.0461	.0480	.2464	.0998	-.2097	-.2071	-.2320			
165.000	-.0396		.1765		-.1440	-.2370	-.2071			
180.000	-.0427	.0479	.1385	.4066						

ALPHA(4) = 4.010 BETA(4) = 5.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.0760	.3064	.0479	-.0244	-.0494	.0000		-.1554	-.1577	-.1661	-.1162	-.0692	-.0291	-.0068	
20.000			.0468	-.0308	-.0748	-.3479		-.2388	-.1893	-.2242	-.1426	-.0900	-.0034	.0442	
40.000			.0431	-.0790	-.1206	-.2734		-.2614	-.3060	-.3031					
55.000			.0433	-.1093	-.1792	-.2277		-.2939	-.4099	-.3507	-.1814	-.0898	-.0489		
70.000			.0606	-.1143	-.1994	-.2019		-.2939	-.5216	-.3640	-.1728	-.0744	-.0327		
90.000	.1006		.0096	-.1287	-.2264	-.1963		-.3539	-.7042	-.4488	-.3027	-.0742	-.0366		
120.000			.0098	-.0795	-.1241	-.0665		-.2674	-.8631	-.4683	-.1801	-.0794	-.0372		
140.000			.1286	.0362	-.0230	.0215		-.2227	-.13780	-.4683	-.1801	-.0794	-.0372		
150.000								.1628							
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0760	.3717	.1827	.1070	.0707	.1217	.5310	.3654	-.14680	-.4796	-.1313	-.0399	-.0744		

ALPHA(4) = 4.080 BETA(5) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6330	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0591	.0011	-.0484	-.2688	-.3290	-.2745	-.2260		-.1657	-.1555
40.000	.0191	.0032	.0326	-.4237	-.3295	-.2170	-.1771		-.1375	-.1458
70.000	-.2396	-.2932	-.2230	-.0849	-.1312	-.0936	-.1229			
90.000	-.1878	-.2038	-.1860	-.1354	-.1669	-.1421	-.1687			
105.000			-.1256	-.2231	-.2166	-.1948	-.1830			
118.000			-.0992	-.0799	-.0872	-.4083	-.2948	-.2109	-.1968	
120.000			.4080	-.1200	-.3702	-.2882	-.2740			
135.000			-.0604	.0223	.2239	.0848	-.4236	-.3434	-.3090	
150.000			-.0415	.1640		-.3359	-.3635	-.2235		
165.000			-.0696	.0242	.1475	.2542				

ARC11-716 1A14 CR-112-S12M25-AT11 CRB. FUSELAGE (R81835)

ALPHAO (4) = 4.000 BETAO (9) = 8.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	.9983	.4394	-.0240	-.0882	-.1077	.0000	-.2507	-.2362	-.2451	-.1657	-.1431	-.0893	-.0702		
20.000			-.0545	-.1344	-.1365	-.4847	-.2751	-.2567							
40.000			-.0934	-.1924	-.2021	-.3562	-.3086	-.3020	-.2922	-.2027	-.1431	-.0421	.0147		
55.000			-.0966	-.2246	-.2755	-.2979	-.3412	-.3425							
70.000			-.0882	-.2194	-.2834	-.2652	-.3521	-.4438	-.3455	-.1836	-.0905	-.0567			
90.000			-.1079	-.1181	-.2212	-.2939	-.4156	-.5785	-.3667	-.1782	-.0704	-.0387			
120.000			-.0201	-.1827	-.2308	-.1610	-.3827	-.8656	-.4368	-.2988	-.0637	-.0312			
140.000								-.12810							
150.000			.0276	-.0241	-.0944	-.0592	-.3706	-.14640	-.3049	-.1845	-.1094	-.0872			
156.000							.0456								
162.000							-.2517								
169.000							.2845								
174.000						.4461									
180.000			.2901	.1226	.0539	.0203	.2565								
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI	-.0183	-.0493	-.0816	-.2753	-.3360	-.2895	-.2527	-.1886	-.1731						
40.000			-.0041	-.0125	-.0182	-.4285	-.3296	-.2346	-.2106						
70.000			-.2394	-.2842	-.2619	-.1219	-.1647	-.1219	-.1338						
90.000			-.1707	-.2099	-.2230	-.1716	-.2211	-.1775	-.1836						
105.000															
110.000			-.1668	-.2627	-.2644	-.2339	-.2031	-.2079							
120.000			-.1011	-.0948	-.1220	-.2239	-.3421	-.2630	-.2482						
135.000															
150.000			-.0879	-.0072	.2107	-.2191	-.3165	-.3761	-.3227						
165.000			-.0974		.1894	.1362	-.6251	-.4394	-.3439						
180.000			-.1218	-.0206	.1394	-.5804	-.4701	-.2533							
ALPHAO (9) = 7.930 BETAO (1) = -8.040															

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI	1.0240	.5801	.0929	-.0363	-.0451	.0000	-.1792	-.1417	-.1226	-.0846	-.0409	.0421	.0670		
20.000			.2233	.0519	-.0064	.0140	-.2376	-.1176							
40.070			.4856	.2078	.1170	.0336	-.1406	-.0797	-.0793	-.0423	-.0051	.1156	.1919		
55.000			.2993	.3883	.2351	.1229	.0054	-.0406							
70.000			.3672	.3615	.2153	.1414	.0239	-.1134	-.2269	-.1381	-.0300	-.0384			
90.000			.7296	.3036	.3221	.1796	-.0076	-.1901	-.2476	-.1650	-.0961	-.0701			

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(RB1835)

ARC11-716 1A14 01-112-S12N5+111 CRB. FUSELAGE

ALPHAO (5) = 7.930 BETAO (1) = -0.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.3760
PHI															
120.000		.3456	.1313	.0740	.0949	.0744									
140.000															
150.000		.1164	.0165	-.0212	.0559										
171.000															
176.000															
182.000															
189.000															
174.000															
190.000	1.0240	.3025	-.0055	-.0377	-.0353	.0217	.5727	.1665							
M/LB	.6530	.7300	.7810	.8230	.8650	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.1278	.0970	.0601	-.1271	-.3441	-.3000	-.2516								
40.000	.1734	.2042	.3264	-.0665	-.5131	-.3169	-.2825								
70.000	-.4292	-.2866	-.0596	1.4682	.0514	.0513	-.0336								
90.000	-.3664	-.2216	-.0111	1.472	.0307	.0036	-.0694								
105.000			.1239	.1539	-.0205	-.0721	-.1174								
110.000															
120.000	-.4624	-.1905	.4013	.1541	-.0917	-.0791	-.1099								
135.000			.1793	-.2047	-.1836	-.1251	-.2109								
150.000	-.2006	-.0545	.0622	-.1136	-.0281	-.0516	-.1973								
165.000	-.1594		.0383		.0684	-.0733	-.2709								
180.000	-.1390	-.0426	.0667	.0969											

ALPHAO (5) = 7.940 BETAO (2) = -4.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.3760
PHI															
.000	1.0910	.6133	.1401	.0290	-.0118	.0000									
20.000			.2899	.0627	.0215	-.0676									
40.000			.3927	.1321	.0688	-.0480									
55.000			.4324	.2322	.1074	.0037									
70.000			.4348	.2194	.0870	.0289									
90.000	.5718	.3735	.1921	.0534	.0297										
120.000		.2612	.0355	.0316	.0696										
140.000		.1326	.0530	-.0021	.0740										
150.000															
151.000															
156.000															
162.000															

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 1A14 01-118-512M2-AT11 CRG. FUELAGE (R81835)

ALPHA(5) = 7.940 BETA(2) = -4.000

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

K/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI								.4665							
169.000															
169.000															
174.000							.6066								
190.000	1.0910	.5363	.0674	.0332	.0149	.0732		.3214							
K/LB	.6930	.7300	.7610	.8230	.6620	.9230	.9630	1.0020	1.0210	1.0460					
PHI															
.000	.1186	.0606	.0386	-.1727	-.2877	-.2723	-.2274								
40.000	.1341	.1603	.2733	-.1355	-.4596	-.2710	-.2303								
70.000	-.4056	-.3276	-.1829	.0858	.0076	.0238	-.0446								
90.000	-.3271	-.2444	-.0510	.0842	-.0213	-.0292	-.0591								
105.000		.0366	.0348	-.0726	-.0999	-.1278									
110.000															
120.000	-.3038	-.1046	.2212	.0356	-.1267	-.1039	-.1273								
135.000		.2268	-.1066	-.1664	-.1231	-.1634									
150.000	-.1295	-.0112	.1403	.0132	-.1127	-.1241	-.1955								
165.000	-.1041		.1142		-.0366	-.1472	-.2220								
180.000	-.0878	-.0009	.1115	.2956											
K/LB															
PHI															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
190.000	1.1120	.3336	.0632	.0508	.0317	.0942	.3635								
K/LB	.6930	.7300	.7610	.8230	.6620	.9230	.9630	1.0020	1.0210	1.0460					

ALPHA(5) = 7.940 BETA(3) = .030

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

K/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1120	.6186	.1371	.0362	-.0077	.0000									
20.000		.1625	.0431	.0124	-.1944										
40.000		.2639	.0691	.0023	-.1466										
55.000		.2789	.0609	-.0216	-.1143										
70.000		.2689	.0696	-.0483	-.0636										
90.000		.3661	.2307	.0538	-.0911	-.0721									
120.000		.1976	.0091	-.0390	.0196										
140.000			.1265	.0396	-.0117	.0634									
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
190.000	1.1120	.3336	.0632	.0508	.0317	.0942	.3635								
K/LB	.6930	.7300	.7610	.8230	.6620	.9230	.9630	1.0020	1.0210	1.0460					



MEC11-718 1A14 ORBITER FUSELAGE (R81835)

ALPHAO(5) = 7.930 BETAO(4) = 4.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-1.198	-0.956	-0.538	-2.927	-2.402	-1.651	-1.632	-1.624		
135.000			.3919	-1.053	-3.009	-2.287	-2.308			
150.000	-0.026	.0006	.2246	.0636	-3.515	-2.969	-2.781			
165.000	-0.037	.1363			-3.352	-3.344	-2.002			
180.000	-0.039	-0.009	.1081	.3107						

ALPHAO(5) = 7.920 BETAO(5) = 6.180

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3750	.4990	.5780
PHI															
.000	.9680	.4754	-.0207	-.0717	-.1039	.0000		-.2182	-.2247	-.2224	-.1809	-.1185	-.0615	-.0340	
20.000			-.0413	-.1271	-.1306	-.4492		-.2324	-.2669	-.2649	-.1939	-.1203	-.0221	.0472	
40.000			-.0855	-.1721	-.2020	-.3283		-.2895	-.3342	-.3169					
55.000			-.1062	-.2180	-.2731	-.2646		-.3342	-.4163	-.3469	-.1921	-.1143	-.0692		
70.000			-.0840	-.2219	-.2773	-.2458		-.3157	-.5545	-.3640	-.1838	-.0883	-.0817		
90.000			-.1303	-.1486	-.2427	-.3126	-.2445	-.3731	-.8402	-.4587	-.2763	-.0769	-.0570		
120.000			-.0549	-.2036	-.2436	-.1480		-.3393	-1.1940						
140.000			-.0374	-.0816	-.1672	-.0635		-.3650	-.1.5710	-.5866	-.1867	-.0736	-.0902		
150.000								.0490							
151.000									-.2735						
156.000									-1.3640	.7336	-.1914	-.1109	-.1161		
162.000								.2600							
165.000															
169.000															
174.000							.4146	.2163							
180.000	.9680	.1718	.0343	-.0271	-.0350	.0231			-.8707	-.7731	-.2396	-.1373	-.1166		
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

X/LB	.000	.0144	-.0110	-.0425	-.2674	.3619	-.2770	-.2533	-.1667	-.1500
PHI										
.000	.0385	.0216	.0431	-.4383	-.3364	-.2131	-.1840			
40.000	-.2936	-.3167	-.2498	-.1207	-.1315	-.1132	-.1313			
70.000	-.2223	-.2451	-.2138	-.1396	-.1882	-.1817	-.1771			
90.000			-.1000	-.2528	-.2403	-.2103	-.1885			
105.000										
110.000	-.1236	-.1173	-.0778	-.4233	-.3196	-.2417	-.2106			
120.000			.3737	-.1818	-.4366	-.3184	-.2812			
135.000	-.1178	-.0430	.1461	-.0239	-.5479	-.3929	-.3232			
150.000			.0793		-.3609	-.4064	-.2342			
165.000	-.1271		.0793							
180.000	-.1278	-.0422	.0730	.1231						



ARC11-716 IAI14 ORBITER PUBLAGE (M81836)

ALPHA(1) = -0.110 BETA(2) = -3.970

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.1000	.4966	.0769	.0086	.0246	.0000	-.2143	-.1974	-.1684	-.1019	-.0722	-.0232	-.0011	
20.000			.1345	.0475	.0375	.0229	-.3206	-.2170	-.2170	-.2174	-.1216	-.0720	.0166	.0604	
40.000			.2921	.0832	.0279	-.0777	-.3322	-.2779	-.2779	-.2442	-.2613	-.0720	.0166	.0604	
59.000			.4068	.1904	.0804	-.0463	-.2442	-.2613	-.2613	-.2442	-.2613	-.0720	.0166	.0604	
70.000			.4854	.2554	.1155	.0291	-.1659	-.2591	-.2591	-.2591	-.0720	.0215	.0699	.0699	
90.000		.7196	.5169	.3009	.1460	.0542	-.1664	-.3754	-.3754	-.3203	-.2969	-.0091	.0490	.0490	
120.000			.5721	.3654	.2500	.2777	.0696	-.2407	-.2594	-.2594	-.1010	-.0167	.0346	.0346	
150.000			.5531	.4263	.3490	.3680	.2554								
171.000							.6027								
196.000							.3346								
165.000							.6037								
169.000															
174.000															
170.000															
W/LB	.6030	.7300	.7610	.6230	.6620	.9230	.9430	1.0020	1.0210	1.0490					
PHI	.000	.0076	.0029	.0237	-.0859	-.3699	-.3190	-.2602	-.2236	-.2181					
40.000		-.0249	.0465	.2334	-.1169	-.3746	-.3125	-.2795	-.2412	-.2406					
70.000		.0243	-.0299	.0187	.1057	-.0017	-.0099	-.0999							
90.000		.0701	.0283	.0680	.0620	-.0236	-.0513	-.1403							
105.000				.1437	.0044	-.0686	-.1046	-.1362							
110.000							-.2370								
120.000		.0790	.1325	.2747	-.0316	-.0997	-.1035	-.1964							
133.000				.6229	.1735	-.0373	-.0717	-.1610							
150.000		.0804	.1636	.5977	.2091	-.0230	-.0637	-.2712							
162.000		.0824		.3303		.0766	-.0606	-.3107							
160.000		.0891	.1369	.3136	.4827										

ALPHA(1) = -0.070 BETA(3) = .010

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.1080	.4601	.0757	.0166	.0244	.0000	-.2191	-.2193	-.1821	-.1070	-.0453	-.0066	-.0023	
20.000			.1119	.0279	.0255	-.0823	-.2820	-.2328	-.2328	-.2376	-.2133	-.1111	-.0429	.0043	.0291
40.000			.1975	.0326	-.0168	-.1427	-.3559	-.2976	-.2976	-.2133	-.1111	-.0429	.0043	.0291	
59.000			.2782	.0767	-.0206	-.1394	-.3411	-.3411	-.3473	-.3473	-.1111	-.0429	.0043	.0291	
70.000			.3426	.1126	-.0097	-.0736	-.2917	-.2917	-.4002	-.4002	-.0459	.0129	.0723	.0723	
90.000		.5337	.3699	.1549	.0107	-.0659	-.3026	-.3026	-.5112	-.5112	-.1033	-.0072	.0371	.0371	

ORIGINAL PAGE IS OF POOR QUALITY



TABULATED PRESSURE DATA - 1A14A - VOL. 3

(R01036)

SECTION 1108BITER PURCHASE

ALPHAX (1) = -0.000 BETA (4) = 4.000

DEPENDENT VARIABLE CP

W/LB .0000 .0000 .0250 .0470 .0700 .1100 .1390 .1670 .1790 .2050 .2500 .3010 .3790 .4990 .5760

PHI -9.795 -.5391 -.0977 -.0487 -.0072

.5829

-1.1100 -.2325 -.0797 -.0313 .0182

.6133

W/LB .0000 .7500 .7610 .8230 .8420 .8620 .9030 1.0020 1.0210 1.0490

PHI -.0334 -.0368 -.0422 -.2397 -.3465 -.3299 -.2782

-.0781 -.0817 -.0158 -.4556 -.4282 -.2943 -.2390

.0195 -.0826 -.1078 -.0343 -.1474 -.1131 -.1608

.0296 -.0822 -.1018 -.1601 -.1444 -.1932

101.000 -.0266 -.1898 -.2041 -.2016 -.2298

110.000 -.2791

120.000 .0236 .0345 -.1416 -.4896 -.2833 -.2847 -.2835

135.000 .5982 .5204 -.3916 -.3794 -.3994

150.000 .0487 .1401 .5304 -.3978 -.3164 -.3923

165.000 .0793 .3504 -.2348 -.3297 -.2791

180.000 .0719 .1623 .3192 .5115

ALPHAX (1) = -0.100 BETA (9) = 0.100

DEPENDENT VARIABLE CP

W/LB .0000 .0000 .0250 .0470 .0700 .1100 .1390 .1670 .1790 .2050 .2500 .3010 .3790 .4990 .5760

PHI -.0208 -.2922 -.2196 -.1719 -.1351 -.1322

-.3146

-.3384 -.2940 -.2037 -.1719 -.0755 -.0360

.4430

-.6033 -.4279 -.1772 -.0177 .0163

-.7975 -.6317 -.2896 -.0631 -.0296

-.9212 -.3948 -.4314 -.1874 -.0387

-1.1430

-1.0870 -.9906 -.1939 -.1344 -.0979

-.1632

.0011

-1.0640 -.3132 -.1661 -.1140 -.0745

-.1010 -.2833 -.1404 -.0944 -.0430

1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000



ARC11-716 1A14 01-T12-S12R2+AT11 CRB. FUSELAGE

(R01036)

ALPHAO(1) = -0.100 BETA0 (5) = 0.100

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	-.0988	-.0994	-.1202	-.2539	-.4154	-.3605	-.3315		-.2651	-.2449
40.000	-.1033	-.1165	-.0323	-.4792	-.4365	-.3230	-.2806		-.2435	-.2345
70.000	-.0110	-.1009	-.1766	-.1054	-.2249	-.297	-.1793			
90.000	-.0419	-.0944	-.1550	-.1842	-.2429	-.831	-.1993			
105.000		-.1009	-.3227	-.2652	-.2295	-.2193				
110.000										
120.000	.0009	-.0082	-.3501	-.7420	-.4535	-.3201	-.3335			
135.000			.4358	-.2622	-.9302	-.4856	-.4303			
150.000	-.0195	.0761	.4273	.3667	-.5703	-.6542	-.3468			
165.000	-.0099		.3134		-.3571	-.6232	-.2973			
180.000	.0022	.1016	.2670	.4655						

ALPHAO(2) = -3.980 BETA0 (1) = -0.050

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1280	.4716	.0695	-.0278	-.0085	.0000		-.2291	-.2116	-.2121	-.1523	-.0639	-.0090	.0345	.1217
20.000		.1663	.0470	.0201	.1110			-.3170	-.1956	-.2188	-.1927	-.0716	.0573		
40.000		.3990	.1434	.0697	.0194			-.2396	-.1534	-.1765	-.2226	-.0611	.0171	.0604	
55.000		.5993	.3230	.2069	.0999			-.1066	-.1765	-.2300	-.2770	-.1080	.0070	.0576	
70.000		.6269	.3681	.2541	.1450			-.0107	-.2142	-.2142	-.5973	-.3033	-.0664	-.0290	
90.000	.6324	.6125	.3987	.2530	.1861			-.1915	-.2244	-.3075	-.10900	-.1546	-.0813	-.0524	
120.000		.5956	.3676	.3156	.3017										
140.000		.4636	.3415	.2753	.3117			.3121							
150.000								.6402							
156.000															
162.000															
165.000								.6504							
169.000															
174.000															
180.000	1.1280	.6994	.3345	.2392	.2288	.2345		.7966							
X/LB	.6530	.7500	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0718	.0760	.0667	-.0274	-.4509	-.3279	-.3030								
40.000	.0821	.1617	.3969	-.0014	-.6275	-.3482	-.2774								
70.000	-.1040	-.1160	.0113	.1575	.0301	.0352	-.0365								
90.000	-.0573	-.0507	.0768	.1506	.0231	-.0040	-.1081								
105.000			.1819	.0932	-.0164	-.0349	-.1260								
110.000															

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ARC11-710 1A14 01-T12-S12E5-AT11 CRG. FUSELAGE

ALPHAX (2) = -3.980 BETA0 (1) = -0.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.3731	.0342	.3983	.0985	-.0372	-.0314	-.1032	-.1887		
135.000		.4606	.0980	-.0161	-.0104	-.1340				
150.000	-.0432	.0680	.2465	.1313	.0658	.0030	-.2394			
165.000	-.0467		.2132		.1905	.0089	-.3288			
180.000	-.0409	.0585	.2199	.3723						

ALPHAX (2) = -3.980 BETA0 (2) = -3.950

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5780	
PHI																
000	1.1820	.9079	.0675	.0047	.0186	.0000		-.1982		-.1904	-.1731	-.1065	-.0600	-.0012	.0296	
20.000		.1577	.0425	.0299	.0163			-.2953		-.2087		-.2480	-.1229	-.0606	.0324	.0895
40.000		.3146	.0918	.0314	-.0756			-.3202		-.2462		-.2462				
55.000		.4275	.1946	.0939	-.0285			-.2096		-.2832		-.3188	-.1050	-.0074	.0473	
70.000		.4784	.2427	.1161	.0204			-.1358		-.3465		-.3567	-.1152	-.0208	.0400	
90.000		.6911	.4784	.2746	.1357	.0755		-.1353		-.3355		-.6937	-.2683	-.0352	.0066	
120.000		.9075	.2925	.2260	.2265			.0785		-.2969						
140.000		.4527	.3401	.2713	.2922			.2167		-.3784		-.1040	-.1198	-.0590	-.0041	
150.000								.1763								
151.000																
156.000																
162.000		.0620	.6707	.3687	.7054	.2675	.2909			-.10370	-.6202	-.0999	-.0441	-.0177		
163																
169																
174																
180																

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
000	.0337	.0503	.0461	-.0874	-.3568	-.2960	-.2799		-.2064	-.1923
40.000	.0366	.1086	.2640	-.0797	-.5551	-.2956	-.2419		-.2241	-.2232
70.000	-.0663	-.1306	-.0420	.0801	-.0210	-.0069	-.0954			
90.000	-.0477	-.0684	.0144	.0999	-.0417	-.0545	-.1356			
105.000		.1062	-.0236	-.0676	-.1068	-.1587				
110.000										
120.000	-.0118	.0572	.2695	-.0241	-.1153	-.0974	-.1480			
135.000		.5316	.1052	-.0913	-.0780	-.1809				
150.000	.0423	.1196	.3256	.1874	-.0337	-.0889	-.2694			
165.000	.0191	.2692	.0284	-.0915	-.2885					
180.000	.0224	.1060	.2378	.4026						



(R81836)

ARC11-716 1A14 01+112+S12M25+AT11 CR8. FUSELAGE

ALPHAC(2) = -3.930 BETA(3) = .060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE (3)

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PH1															
.000	1.1940	.3085	.0879	.0096	.0128	.0000		-.2132		-.2063	-.1771	-.1101	-.0443	.0019	.0222
20.000			.1275	.0214	.0154	-.0992		-.2759		-.2229					
40.000			.2115	.0340	-.0151	-.1516		-.3114		-.2804	-.2445	-.1165	-.0699	.0151	.0572
55.000			.2816	.0737	-.0178	-.1294		-.2983		-.3206					
70.000			.3231	.1013	-.0289	-.0958		-.2597		-.3792	-.4920	-.1070	-.0253	.0324	
90.000		.3002	.3411	.1308	-.0060	-.0712		-.2760		-.4891	-.7200	-.1129	-.0269	.0304	
120.000			.3942	.1943	.1181	.1279		-.0857		-.5327	-.8036	-.2378	-.0389	.0078	
140.000										-.5859					
150.000			.4112	.3096	.2302	.2461			.1025	-.9609	-.6643	-.0926	-.0399	.0047	
151.000								.4714							
156.000									.1985						
162.000										-1.0300	-.3046	-.0992	-.0398	-.0003	
165.000							.7525	.6068							
169.000															
174.000															
180.000	1.1940	.6893	.4096	.3230	.2782	.3100		.9880		-1.1610	-.4712	-.0992	-.0332	.0058	
X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PH1															
.000	1.1940	.3085	.0879	.0096	.0128	.0000		-.2132		-.2063	-.1771	-.1101	-.0443	.0019	.0222
20.000			.1275	.0214	.0154	-.0992		-.2759		-.2229					
40.000			.2115	.0340	-.0151	-.1516		-.3114		-.2804	-.2445	-.1165	-.0699	.0151	.0572
55.000			.2816	.0737	-.0178	-.1294		-.2983		-.3206					
70.000			.3231	.1013	-.0289	-.0958		-.2597		-.3792	-.4920	-.1070	-.0253	.0324	
90.000		.3002	.3411	.1308	-.0060	-.0712		-.2760		-.4891	-.7200	-.1129	-.0269	.0304	
120.000			.3942	.1943	.1181	.1279		-.0857		-.5327	-.8036	-.2378	-.0389	.0078	
140.000										-.5859					
150.000			.4112	.3096	.2302	.2461			.1025	-.9609	-.6643	-.0926	-.0399	.0047	
151.000								.4714							
156.000									.1985						
162.000										-1.0300	-.3046	-.0992	-.0398	-.0003	
165.000							.7525	.6068							
169.000															
174.000															
180.000	1.1940	.6893	.4096	.3230	.2782	.3100		.9880		-1.1610	-.4712	-.0992	-.0332	.0058	
X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

ALPHAC(2) = -3.930 BETA(4) = 4.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PH1															
.000	1.1940	.4787	.0602	.0031	-.0139	.0000		-.2033		-.1925	-.1930	-.1358	-.0872	-.0306	-.0130
20.000			.0655	-.0193	-.0344	-.2316		-.2775		-.2260					
40.000			.0981	-.0388	-.0806	-.2570		-.3285		-.2649	-.2813	-.1273	-.0726	-.0080	.0282
55.000			.1338	-.0434	-.1246	-.2172		-.3322		-.3639					
70.000			.1770	-.0334	-.1464	-.1811		-.3355		-.4745	-.4145	-.1064	-.0203	.0238	
90.000		.2902	.1982	-.0098	-.1428	-.1711		-.3700		-.6280	-.5099	-.1126	-.0331	.0137	

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ARC11-716 1A14 01-712-S12MS-AT11 CRB. FUSELAGE (R61896)

ALPHA(2) = -3.990 BETA(4) = 4.070

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0063	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI	120.000		.2676	.0665	-.0147	.0171		-.2051		-.7285	-.8625	-.2670	-.0747	-.0239	
	140.000							-.9816							
	150.000		.3352	.2399	.1546	.1756				-1.0460	-.5904	-.1198	-.0532	-.0206	
	191.000							-.0333							
	156.000						.3465		.0912	-1.0200	-.6904	-.0649	-.0530	-.0260	
	162.000							.5432							
	165.000														
	169.000														
	174.000						.7006			-1.1220	-.5457	-.0862	-.0550	-.0096	
	160.000	1.1660	.6316	.4055	.3203	.2672	.2975	.5641							
X/LB	.6530	.7300	.7610	.8230	.8820	.9237	.9630	1.0020	1.0210	1.0480					

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000		.0162	.0056	-.0347	-.2428	-.3485	-.3046	-.2965	-.2007	-.1976				
	40.000		-.0225	-.0316	.0195	-.4157	-.3942	-.2667	-.2251	-.1909	-.1958				
	70.000		-.0661	-.1347	-.1647	-.0824	-.1546	-.1065	-.1502						
	90.000		-.0382	-.0860	-.1230	-.1487	-.1866	-.1506	-.1893						
	105.000			-.0674	-.2368	-.2271	-.2096	-.2142							
	110.000							-.2929							
	120.000		-.0085	.0006	-.1045	-.4692	-.2736	-.2684	-.2640						
	135.000			.5016	-.0573	-.3971	-.3528	-.3560							
	150.000		.0141	.0966	.3633	.2724	-.4699	-.3342	-.3782						
	165.000		.0146	.2964		-.2956	-.3673	-.2662							
	160.000	.0111	.1110	.2657	.4269										

ALPHA(2) = -4.000 BETA(5) = 6.110

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000		1.0660	.4067	-.0107	-.0426	-.0614	.0000		-.2579	-.2617	-.2139	-.1510	-.0994	-.0623
	80.000			-.0264	-.0954	-.1006	-.3679		-.2936	-.2699					
	40.000			-.0456	-.1436	-.1647	-.3936		-.3237	-.3136	-.3338	-.1562	-.1507	-.0317	-.0061
	55.000			-.0186	-.1692	-.2186	-.3055		-.3768	-.3960					
	70.000			.0182	-.1634	-.2569	-.2718		-.3657	-.5335	-.3735	-.1522	-.0273	-.0011	
	90.000		.0435	.0416	-.1329	-.2739	-.2706		-.4518	-.7538	-.6185	-.1706	-.0288	-.0085	
	120.000			.1104	-.0970	-.1720	-.1237		-.3656	-.9055	-.4745	-.3102	-.0966	-.0397	
	140.000								-.11760						
	150.000		.2024	.1464	.0354	.0706			-1.0910	-.6842	-.0996	-.1107	-.0767		
	131.000							-.8039							
	136.000							.1637							
	162.000														



ARC11-716 1A14 CR-T12-S12E5-AT11 CRB. FUELSAGE

(RB1836)

ALPHA(3) = -.310 BETA(1) = -0.050

SECTION (1) ORBITER FUELSAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1086	.0966	.1067	-.0149	-.4292	-.3232	-.2923		-.2100	-.1903
40.000	.1309	.1964	.3707	.0332	-.3651	-.3399	-.2699		-.2375	-.2453
70.000	-.2041	-.2254	-.0280	.1477	.0907	.0570	-.0370			
90.000	-.1602	-.1456	.0519	.1446	.0266	.0137	-.0906			
105.000		.1606	.1028	-.0116	-.0546	-.1197				
110.000							-.2264			
120.070	-.1991	-.0530	.3692	.1270	-.0410	-.0351	-.1008		-.1732	
135.000			.3670	.0225	-.0534	-.0326	-.1441			
150.000	-.1087	.0284	.1957	.0584	.0436	-.0107	-.2290			
165.000	-.0846		.1668	.1369	-.0079	-.3132				
180.000	-.0849	.0266	.1851	.3146						

ALPHA(3) = -.320 BETA(2) = -3.990

SECTION (1) ORBITER FUELSAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780	
PHI																
.000	1.1750	.5546	.1099	.0121	.0221	.0000		-.1996		-.1606	-.1624	-.1006	-.0534	.0131	.0999	
20.000		.1815	.0533	.0396	.0241			-.2535		-.1701		-.2068	-.1180	-.0542	.0316	.1223
40.000		.3458	.1110	.0567	-.0485			-.2416		-.2068	-.2066					
55.000		.4364	.2093	.1069	.0035			-.1435		-.1988						
70.000		.4771	.2449	.1178	.0306			-.2435		-.2435	-.3922	-.1334	-.0336	.0101		
90.000	.6661	.4490	.2444	.1020	.0644			-.1103		-.3127	-.5764	-.1489	-.0431	.0114		
120.000		.4554	.2444	.1737	.1968			-.0673		-.3417	-.7143	-.3101	-.0792	-.0447		
140.000										-.3504						
150.000		.3682	.2623	.2016	.2447				.1972	-.4209	-.10610	-.1613	-.0645	-.0362		
151.000																
156.000																
162.000																
165.000																
169.000																
174.000																
180.000	1.1750	.9642	.3012	.2335	.1975	.2339	.7443		.2512	-.10630	-.6715	-.1665	-.0643	-.0416		
W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480						

PHI

.000	.0919	.0796	.0706	-.0763	-.3403	-.2906	-.2666		-.2004	-.1865						
40.000	.0665	.1444	.3055	-.0776	-.5431	-.2940	-.2316		-.2116	-.2139						
70.000	-.1940	-.2361	-.0927	.0683	-.0178	.0023	-.0694									
90.070	-.1384	-.1301	-.0191	.0463	-.0489	-.0460	-.1227									
105.000		.0904	-.0369	-.0876	-.1040	-.1401										
110.000							-.2323									

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(R81836)

ARC11-716 1A14 01-T12-S12E3-AT11 CRB. PUSBLAGE

ALPHAO(3) = -.320 BETA0 (2) = -3.990

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.1026	-.0196	.2444	-.0279	-.1191	-.0912	-.1377	-.1885		
135.000		.4801	.0336	-.1113	-.0650	-.1750				
150.000	-.0434	.0482	.1213	-.0821	-.0993	-.2333				
165.000	-.0356	.2195		-.0035	-.1066	-.2094				
180.000	-.0262	.0702	.2118	.3354						

ALPHAO(3) = -.330 BETA0 (3) = .040

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	1.1900	.5368	.1122	.0194	.0187	.0000		-.1567	-.1657	-.1618	-.1042	-.0333	.0275	.0322	
40.000		.1543	.0329	.0278	-.0902		-.2289	-.2289	-.1843	-.2263	-.2498	-.1201	-.0965	.0313	.0862
60.000		.2381	.0494	.0027	-.1332		-.2327	-.2327	-.2703	-.2703					
80.000		.2894	.0820	-.0075	-.1059		-.2439	-.2439	-.3314	-.3314	-.6309	-.1342	-.0498	.0017	
100.000		.4736	.2651	.1069	-.0107	-.0427	-.2018	-.2018	-.4342	-.4342	-.7803	-.1318	-.0480	.0014	
120.000			.3493	.1328	.0906	.1160	-.0344	-.0344	-.5150	-.5150	-.7992	-.2422	-.0475	-.0151	
140.000									-.6283	-.6283	-.9872	-.8000	-.0953	-.0472	-.0203
160.000															
180.000															
PHI															
20.000															
40.000															
60.000															
80.000															
100.000															
120.000															
140.000															
160.000															
180.000															

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
20.000	.0699	.0404	-.0066	-.2294	-.2982	-.2954	-.2432		-.1661	-.1843
40.000	.0430	.0364	.1406	-.2181	-.4484	-.2697	-.2272		-.1672	-.1991
60.000	-.1883	-.2343	-.1998	-.0220	-.0946	-.0312	-.1108			
80.000	-.1198	-.1540	-.0972	-.0659	-.1266	-.0938	-.1536			
100.000		-.0117	-.1621	-.1665	-.1445	-.1771				
110.000										
120.000	-.0346	-.0040	.0093	-.2063	-.2103	-.1647	-.1896			
135.000		.4373	.0432	-.2266	-.1892	-.2322				
150.000	-.0131	.0723	.3062	.1893	-.2300	-.2134	-.2873			
165.000	-.0079	.2376	-.1580	-.2246	-.2592					
180.000	-.0033	.0723	.2203	.4366						

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ARC11-716 1A14 CR+T12+S12E5+AT11 CR8. PUSBLAGE (R81836)

ALPHA(3) = -.330 BETA(4) = 8.130

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.0750	.4916	.0050	-.0544	-.0699	.0000		-.2702		-.2527	-.2745	-.2107	-.1341	-.0455	-.0576
20.000		-.0134	-.1051	-.1056	-.3917			-.2707		-.2757					
40.000		-.0423	-.1329	-.1716	-.4134			-.3026		-.3014	-.3415	-.2167	-.1536	-.0428	.0191
55.000		-.0302	-.1760	-.2240	-.3281			-.3518		-.3699					
70.000		.0056	-.1765	-.2626	-.2354			-.3435		-.4817	-.4163	-.1575	-.0578	-.0227	
90.000		.0042	.0182	-.1682	-.2737	-.2518		-.4079		-.6681	-.5602	-.1513	-.0474	-.0168	
120.000		.0755	-.1144	-.1674	-.1178			-.3201		-.6854	-.5246	-.2667	-.0797	-.0448	
140.000										-1.2170					
150.000		.1449	.0797	-.0041	.0296					-1.1720	-.7596	-.2280	-.0749	-.0834	
151.000								.1696		-.2178					
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0750	.4531	.2638	.1768	.1357	.1877	.5579	.4034		-1.0670	-.7813	-.2246	-.0940	-.0981	
PHI															
.000	.6530	.7300	.7810	.6230	.8620	.9230	.9430	1.0020	1.0210	1.0460					
40.000		-.0116	-.0194	-.0464	-.2197	-.3647	-.3231	-.2901		-.2371	-.2051				
70.000		-.0048	-.0063	.0396	-.4332	-.4153	-.2723	-.2410		-.1996	-.1641				
90.000		-.1374	-.2149	-.2511	-.1626	-.2443	-.1500	-.1512							
103.000		-.0973	-.1527	-.2101	-.2432	-.2804	-.2023	-.2013							
110.000			-.1445	-.3465	-.3244	-.2350	-.2140								
120.000		-.0648	-.0485	-.2300	-.6299	-.4590	-.2963	-.2896							
135.000			.2845	-.1947	-.9295	-.4304	-.3461								
150.000		-.0651	.0318	.3031	.2938	-.6627	-.7522	-.3154							
165.000		-.0790		.2356											
180.000	-.0829	.0195	.1864	.3541											

ALPHA(4) = 3.810 BETA(1) = -4.010

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1620	.6146	.1409	.0080	.0159	.0000		-.1802		-.1450	-.1432	-.0837	-.0379	.0421	.0900
20.000		.2211	.0699	.0362	.0333			-.2447		-.1548					
40.000		.3842	.1394	.0690	-.0337			-.2077		-.1995	-.1846	-.0955	-.0379	.0806	.1647
55.000		.4824	.2283	.1136	.0031			-.1066		-.1649					
70.000		.4749	.2413	.1029	.0416			-.0872		-.2170	-.4101	-.1636	-.0379	-.0130	
90.000		.6399	.4332	.2354	.0793	.0532		-.0911		-.2875	-.5813	-.1796	-.0889	-.0130	



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ARC11-718 1A14 01-712-SIZES+AT11 CRB. FUSELAGE (RS1036)

ALPHA(4) = 3.810 BETA(1) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2920	.3010	.3790	.4990	.5760
PMT															
120.000		.3799	.1767	.1220	.1479		.0879								
140.000															
150.000		.2643	.1656	.1075	.1755										
151.000							.5401								
156.000															
162.000															
163.000															
169.000															
174.000															
180.000	1.1620	.4795	.1933	.1361	.1079	.1700	.7150	.4920							

X/LB .6530 .7300 .7610 .6230 .6620 .9230 .9630 1.0020 1.0210 1.0480

PMT															
.000	.1324	.1130	.0596	-.0646	-.3469	-.2932	-.2630								
40.000	.1421	.1793	.3248	-.0614	-.5433	-.3757	-.2423								
70.000	-.2398	-.4030	-.1343	.0692	-.0099	.0161	-.0512								
90.000	-.2353	-.3096	-.0996	.0477	-.0441	-.0314	-.1079								
105.000		.0630	-.0351	-.0696	-.1039	-.1337									
110.000															
120.000	-.2294	-.1123	.1902	-.0033	-.1233	-.0905	-.1307								
135.000			.3763	-.0215	-.1349	-.0949	-.1805								
150.000	-.1040	.0116	.2016	.0513	-.1023	-.1137	-.2309								
165.000	-.0827		.1647		-.0322	-.1186	-.2503								
180.000	-.0765	.0242	.1544	.2795											

ALPHA(4) = 3.810 BETA(2) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0360	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2920	.3010	.3790	.4990	.5760
PMT															
.000	1.1780	.0169	.1363	.0235	.0162	.0000									
20.000			.1835	.0405	.0296	-.0916									
40.000			.2651	.0663	.0056	-.1463									
55.200			.2979	.0678	-.0127	-.1209									
70.000			.3107	.0696	-.0304	-.0735									
90.000	.4416		.2866	.0759	-.0592	-.0490									
120.000			.2876	.0774	.0215	.0663									
140.000															
150.000			.2487	.1373	.0733	.1905									
151.000															
156.000															
162.000															

.4481

.1404

ARC11-716 1A14 06+712+SIEMENS+AT11 CRG. FUSelage (061836)

ALPHAOX 4) = 3.010 BETA0 (2) = .040

SECTION (1) ORBITER FUSelage DEPENDANT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
162.000															
169.000															
174.000															
180.000	1.1780	.4747	.2097	.1533	.1231	.1063	.0859								
W/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.1027	.0751	.0123	-.2235	-.3093	-.2818	-.2561								
40.000	.0920	.1000	.1867	-.1968	-.4827	-.2833	-.2276								
70.000	-.2720	-.3482	-.2070	-.0324	-.0790	-.0296	-.0670								
90.000	-.2037	-.2808	-.1377	-.0779	-.1136	-.0872	-.1346								
105.000															
110.000															
120.000	-.1286	-.0750	.0381	-.1844	-.1909	-.1445	-.2648								
135.000															
150.000	-.0587	.0210	.2326	.0932	-.2341	-.2198	-.2338								
165.000	-.0591		.1656		-.1653	-.2219	-.2309								
180.000	-.0326	.0307	.1485	.3685											

ALPHAOX 4) = 3.000 BETA0 (3) = 4.050

SECTION (1) ORBITER FUSelage DEPENDANT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
.000	1.1480	.5731	.0954	-.0003	-.0248	.0000									
20.000															
40.000															
55.000															
70.000															
90.000															
105.000															
120.000															
130.000															
135.000															
140.000															
145.000															
150.000															
155.000															
160.000															
165.000															
170.000															
174.000															
180.000	1.1480	.4313	.2231	.1489	.1072	.1087									
W/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
105.000															
120.000															
130.000															
135.000															
140.000															
145.000															
150.000															
155.000															
160.000															
165.000															
170.000															
174.000															
180.000															

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AC11-716 1A14 CR-112-SIZES*AT11 CRG. FUSELAGE (R81836)

ALPHAO(4) = 3.630 BETA(3) = 4.090

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6630	.7900	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI	.000	.0794	.0544	.0061	-.2153	-.3441	-.2966	-.2424	-.1665	-.1760
40.000	.0996	.0496	.0916	-.3971	-.2610	-.2032			-.1697	-.1659
70.000	-.2456	-.3226	-.2613	-.1313	-.1965	-.0566	-.1255			
90.000	-.1730	-.2290	-.2036	-.1667	-.1669	-.1443	-.1623			
109.000		-.1330	-.2064	-.2263	-.1900	-.1659		-.2220		
110.000								-.2092		
120.000	-.0950	-.0900	-.0908	-.3951	-.2966	-.2252	-.2113			
135.000			.4066	-.0716	-.3690	-.2771	-.2665			
130.000	-.0600	.0177	.2328	.1055	-.4163	-.3297	-.3100			
165.000	-.0692		.1697		-.3396	-.3644	-.2323			
180.000	-.0654	.0266	.1575	.3011						

ALPHAO(4) = 3.760 BETA(4) = 6.160

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3750	.4990	.5760
PHI	.000	1.0490	.4662	.0064	-.0640	-.0925	.0000	-.2722	-.2387	-.2628	-.2035	-.1462	-.0756	-.0437	
20.000			-.0177	.1142	-.1173	-.4029		-.2723	-.2615						
40.000			-.0570	.1677	-.1622	-.4356		-.3059	-.2932	-.3364	-.2164	-.1457	-.0390	.0364	
55.000			-.0337	-.2026	-.2496	-.3471		-.3368	-.3433						
70.000			-.0263	-.2037	-.2722	-.2966		-.3276	-.4444	-.5190	-.1708	-.0793	-.0443		
90.000		-.0460	-.0710	-.1946	-.2669	-.2920		-.3717	-.6123	-.5430	-.1632	-.0571	-.0239		
120.000			.0251	-.1396	-.2216	-.1270		-.2660	-.6560	-.5767	-.2817	-.0374	-.0375		
140.000			.0710	.0029	-.0702	-.0111			-.12190	-.7572	-.3476	-.0506	-.0750		
150.000									-.12670	-.7572	-.3476	-.0506	-.0750		
171.000									-.2264						
194.000									.1606						
162.000															
165.000															
169.000															
174.000															
190.000	1.0490	.3329	.1623	.0772	.0437	.1251	.2600	.3769	-.1006	-.10960	-.6053	-.3339	-.0733	-.0903	
PHI	.000	.0121	-.0000	-.0334	-.2226	-.3722	-.3202	-.2633	-.13440	-.7707	-.3209	-.1062	-.0999		
40.000	.0230	.0223	.0614	-.4094	-.3968	-.2664	-.2313								
70.000	-.2144	-.2948	-.2655	-.1769	-.2293	-.1449	-.1429								
90.000	-.1993	-.2075	-.2407	-.2367	-.2634	-.1993	-.1870								
109.000		-.1701	-.3429	-.3207	-.2364	-.2105									
110.000															

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ARC11-716 1A14 06-718-818285-AT11 CRG. PUBLAGE

ALPHA(4) = 3.790 BETA(4) = 8.160

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

X/L	0.000	.7500	.7010	.0230	.0020	.0470	.1120	.1990	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5780
PHI																
120.000	-1.405	-0.837	-0.835	-0.4935	-0.3669	-0.2675	-0.2303	-0.2243								
135.000																
150.000	-0.0095	0.0062	0.004	0.1479	0.0884	0.045	-0.3035									
165.000	-0.0904															
180.000	-0.1132	-0.0020	0.1364	0.2501												

ALPHA(5) = 7.940 BETA(5) = .030

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

X/L	0.000	0.0000	0.0230	0.0470	0.0700	0.1120	0.1990	0.1670	0.1760	0.2030	0.2320	0.3010	0.3790	0.4990	0.5780
PHI															
0.000	1.1370	0.736	0.1744	0.376	0.0208	0.0000									
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
165.000															
174.000															
190.000															

X/L	0.000	.7500	.7010	.0230	.0470	0.0700	0.1120	0.1990	0.1670	0.1760	0.2030	0.2320	0.3010	0.3790	0.4990	0.5780
PHI																
0.000	1.395	1.009	0.430	-0.2028	-0.3023	-0.2927	-0.2370									
40.000																
70.000																
90.000																
105.000																
110.000																
120.000																
135.000																
150.000																
165.000																
180.000																



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 04-712-SIDES+AT11 CRG. PURCHASE

6818361

ALPHAX 31 = 7.930 BETA0 (2) = 4.130

SECTION 11-CORBITTER PURCHASE DEPOSIT VARIABLE CP

W/LB	.0000	.0000	.0000	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PH1																
000	1.1200	.0164	.1106	-.0004	-.0304	.0000			-.1672		-.1251	-.1211	-.0797	-.0472	.0265	.0697
20.000			.1272	-.0135	-.0395	-.2227			-.2266		-.1439					
40.000			.1339	-.0233	-.0772	-.2719			-.2469		-.1062	-.2262	-.1184	-.0433	.0476	.1079
55.000			.1244	-.0366	-.1364	-.2296			-.2741		-.2629					
70.000			.1323	-.0712	-.1714	-.1682			-.2362		-.3481	-.7234	-.1616	-.1000	-.0549	
90.000		.1685	.1015	-.0937	-.2054	-.1491			-.2602		-.4643	-.2066	-.1872	-.0992	-.0330	
120.000			.1146	-.0939	-.1119	-.0256			-.1145		-.6240	-.7316	-.3496	-.0633	-.0343	
140.000											-.8445					
150.000		.1049	.0219	-.0534	.0432						-.12240	-.7070	-.4277	-.0503	-.0223	
171.000										-.0692						
194.000									.3128							
162.000										.0065						
146.000											-.11650	-.7301	-.4830	-.0599	-.0279	
168.000									.4573							
174.000							.6063			.4414						
180.000	1.1200	.3177	.1269	.0280	.0160	.1148					-.0257	-.7337	-.4744	-.0706	-.0394	

W/LB .6030 .7900 .7010 .6253 .6420 .9230 .9430 1.0020 1.0210 1.0490

ALPHAX 31 = 7.910 BETA0 (2) = 8.190

SECTION 11-CORBITTER PURCHASE DEPOSIT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760	
PH1																
000	1.0100	.2642	.0096	-.0731	-.0913	.0000			-.2246		-.2003	-.2215	-.1761	-.1122	-.0400	-.0192
20.000			-.0232	-.1145	-.1071	-.4004			-.2256		-.2266					
40.000			-.0671	-.1687	-.1030	-.4298			-.2710		-.2725	-.3135	-.2008	-.1122	-.0099	.0993
55.000			-.0708	-.2099	-.2064	-.3144			-.3081		-.3111					
70.000			-.0539	-.2182	-.2667	-.2445			-.3045		-.4036	-.3676	-.1901	-.1019	-.0732	
90.000		.1064	-.1127	-.2395	-.3237	-.2323			-.3411		-.5474	-.3096	-.1663	-.0750	-.0465	

W/LB .0000 .0000 .0230 .0470 .0700 .1120 .1990 .1670 .1760 .2050 .2920 .3010 .3790 .4990 .5760

ARC11-716 1A14 ON-TIG-SIZES-AT11 CRG. PUGBLAKE (081836)

ALPHABETICALLY BY BETA (31) = 8.19C

SECTION 1 (1) CRIBTER PUGBLAKE COORDINATOR VARIABLE CP

Y/LB	.0000	.0000	.0000	.0470	.0700	.1100	.1900	.1670	.1700	.2050	.2300	.3010	.3170	.4900	.5700
PH1															
180.000															
140.000															
150.000															
155.000															
196.000															
182.000															
169.000															
174.000															
140.000	1.0100	.8204	.0408	-.0055	-.0437	.0672	.4896	.5205	-.0645	-.7034	-.5351	-.1320	-.0967		
U/L	.6930	.7300	.7910	.6230	.6420	.9237	.9600	1.0020	1.0210	1.0490					
PH1															
.000	.0424	.0159	-.0199	-.2091	-.3603	-.2542	-.2386								
40.000	.0486	.0344	.0170	-.4029	-.4090	-.2377	-.2176								
70.000	-.2008	-.3442	-.3048	-.1897	-.1926	-.1231	-.1339								
90.000	-.2136	-.2633	-.2549	-.2406	-.2333	-.1667	-.1729								
105.000															
110.000															
120.000	-.1241	-.1374	-.0803	-.4366	-.3486	-.2378	-.2236								
135.000															
150.000	-.1170	-.0405	.1802	-.0224	-.6348	-.4038	-.3166								
165.000	-.1319		.0712	-.3536	-.4263	-.2245									
180.000	-.1546	-.0530	.0709	.1703											

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 1A14 CR+T12+S12G2+AT11 CR8. FUSELAGE

(RB1837) (15 FEB 74)

REFERENCE DATA

SEEF = 2.4210 30.FT. MSEP = 29.9000 INCHES
 LREF = 36.7090 INCHES YMRP = .0000 INCHES
 EREF = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

ALPHA(1) = -8.000 BETA(1) = -3.900

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1290	.1670	.1780	.2050	.2320	.3010	.3790	.4890	.5760	
PHI	.000	1.2370	.9209	.1759	.0948	.1216	.0000	-.1834	-.1991	-.2233	-.2705	-.3256	-.2765	-.0916	.0286	.0625
20.000	.000	.2268	.1207	.1277	.1788	-.1991	-.1991	-.6275	-.3000	-.2937	-.3498	-.0371	.0799	.1264		
40.000	.000	.3704	.1966	.1165	.0567	-.2744	-.2543	-.2273	-.6984	-.3907	.0500	.0500	.1542			
55.000	.000	.4963	.2610	.1626	.0541	-.1251	-.0995	-.3447	-.6269	-.9082	.0510	.1464				
70.000	.000	.9576	.3196	.1905	.1128	-.0495	-.1715	-.2487	-.5649	-.8204	.0308	.1211				
90.000	.000	.7624	.3942	.3666	.2205	.1399	-.2030	-.4673	-.7735	-.5333	.0213	.1057				
120.000	.000	.6335	.4245	.3515	.3424		.3962									
140.000	.000	.6088	.4885	.4155	.4322		.6615									
151.000	.000						.7807									
156.000	.000						.6655									
162.000	.000	.0226	.5489	.4600	.4163	.4317										
165.000	.000															
168.000	.000															
174.000	.000															
180.000	.000	1.2370	.9226	.5489	.4600	.4163	.4317									
X/LB	.6230	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460						
PHI	.0795	.0760	.0978	.0235	-.5058	-.3527	-.3140									
40.000	.0541	.1204	.3286	-.0043	-.6964	-.4569	-.3650									
70.000	.0641	.0287	.0663	.1416	.0014	.0349	-.0602									
90.000	.1082	.0816	.1206	.1169	-.0149	-.0012	-.0929									
105.000	.000	.2007	.0481	-.0328	-.0491	-.1157										
110.000	.000	.1911	.1612	.3360	.0202	-.0717	-.0576	-.1186	-.2561	-.2566						
120.000	.000	.6640	.2503	-.0195	-.0202	-.1421										
135.000	.000	.1305	.2377	.4619	.3563	.0351	.0053	-.2895								
145.000	.000	.1305	.3985	.3985	.1142	.0043	-.3478									
160.000	.000	.1891	.2202	.3662	.5699											

PARAMETRIC DATA
 MACH = .950 ELEVON = .000
 RUDDER = .000 SPODRK = .000

ARC11-716 1A14 ORBITER FUELAGE (R01837)

ALPHAO (1) = -0.050 BETA0 (2) = .040

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.2470	.5302	.1688	.1221	.1113	.0000	-.2305	-.2546	-.3588	-.2904	-.0824	-.0534	.0637	
20.000			.2013	.1020	.1095	.0799	-.4563	-.2497	-.3234	-.3555	-.3606	-.0455	.0705	.1023	
40.000			.3600	.1542	.0942	-.0235	-.3671	-.4821	-.4539	-.6075	-.6990	.0145	.1399		
55.000			.4174	.1665	.0703	.0272	-.2207	-.4915	-.4915	-.7934	-.6177	-.0127	.1404		
70.000		.6055	.4449	.2266	.0897	.0334	-.1946	-.4262	-.4262	-.6986	-.6981	-.0786	.1043		
90.000			.5203	.3153	.2337	.2352	.0457	-.4818	-.7035	-.7903	-.4781	.0186	.1043		
120.000			.5586	.4504	.5696	.3776	.2506	-.5672	-.7316	-.6642	-.4194	.0229	.1043		
150.000							.3517	-.7247	-.8436	-.6034	-.3928	.0280	.1203		
162.000							.6561	.7124	-.7035	-.6034	-.3928	.0280	.1203		
165.000									-.8436	-.6034	-.3928	.0280	.1203		
169.000									-.8436	-.6034	-.3928	.0280	.1203		
174.000									-.8436	-.6034	-.3928	.0280	.1203		
190.000	1.2450	.6199	.5671	.4743	.4211	.4420	.7124	.7124	-.8436	-.6034	-.3928	.0280	.1203		
X/LB	.6930	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

ALPHAO (1) = -8.070 BETA0 (3) = 4.090

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0380	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.2210	.9182	.1395	.1002	.0646	.0000	-.2311	-.2506	-.3175	-.2708	-.1165	-.0095	.0048	
20.000			.1327	.0787	.0701	-.0285	-.3210	-.2432	-.2807	-.3793	-.2865	-.1506	.0161	.0545	
40.000			.1672	.0937	.0233	-.0669	-.3511	-.2807	-.3793	-.2865	-.1506	.0161	.0545		
55.000			.2359	.0997	-.0118	-.0692	-.4390	-.2807	-.3793	-.2865	-.1506	.0161	.0545		
70.000			.2620	.0983	-.0325	-.0456	-.2941	-.2807	-.3793	-.2865	-.1506	.0161	.0545		
90.000		.4105	.3109	.0992	-.0270	-.0657	-.2941	-.2807	-.3793	-.2865	-.1506	.0161	.0545		
X/LB	.0000	.0380	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760



ARC11-716 1A14 01+T12+SIZE25+AT11 CRB. FUSELAGE

(R81837)

ALPHAX (1) = -0.070 BETA0 (3) = 4.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
120.000			.3992	.1964	.1062	.1239		-.0615		-.5645	-.7729	-.3028	-.2741	.0680	
140.000										-.7487					
170.000			.4857	.3641	.3063	.3070				-.7345	-.7810	-.4331	-.1400	.0705	
191.000								.4751	.1312						
196.000								.2612							
182.000								.6732		-.7132	-.7691	-.4190	-.0929	.0756	
165.000							.6068								
169.000										-.6052	-.6506	-.3993	-.0912	.0669	
174.000															
180.000	1.2210	.7871	.5682	.4686	.4185	.4351		.6990							
X/LB	.6530	.7900	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0460					

PHI

.000	.0304	.0322	.0076	-.1727	-.3527	-.3678	-.3617								
40.000	-.0045	-.0191	.0304	-.4685	-.3280	-.3669	-.3046		-.3148	-.2860					
70.000	.0934	.0243	-.0206	.0132	-.2111	-.1629	-.1960		-.3228	-.2734					
90.000	.0974	.0350	.0013	-.0401	-.2429	-.2038	-.2415								
103.000			.0610	-.0967	-.2843	-.2303	-.2678								
110.000								-.2764							
120.000	.1036	.1245	-.0031	-.3261	-.4034	-.2756	-.3510								
135.000			.6028	.0633	-.5442	-.3694	-.4136								
130.000	.1161	.1116	.2119	.4341	-.3174	-.3477	-.3962								
165.000	.1195		.4236		-.1755	-.3351	-.3135								
130.000	.1273	.2237	.3509	.5063											

ALPHAX (1) = -0.100 BETA0 (4) = 6.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.1460	.4545	.0753	.0793	.0576	.0000		-.2123		-.3251	-.4635	-.2844	-.2132	-.1139	-.0931
20.000			.0680	.0106	.0233	-.1712		-.2316		-.3086					
40.000			.0650	-.0174	-.0304	-.2139		-.3021		-.3402	-.4353	-.2934	-.2278	-.0731	-.0020
55.000			.0976	-.0419	-.0832	-.1384		-.3976		-.4325					
70.000			.1396	-.0493	-.1272	-.1171		-.3662		-.3336	-.4844	-.5164	-.3061	.0618	
90.000	.1618		.1658	-.0365	-.1475	-.1590		-.3906		-.6600	-.5092	-.3412	-.3714	.0235	
120.000			.2451	-.0022	-.0400	-.0096		-.2390		-.7237	-.6004	-.4932	-.3135	.0190	
140.000								-.6984		-.7945	-.8469	-.3790	-.1444	-.0345	
150.000			.3482	.2936	.2016	.2072		-.0285							
151.000															
154.000															
162.000															

.3327
.1480

ARC11-716 1A14 06+712-S12E3+711 ORG. FUSELAGE

(R81837)

ALPHAX (1) = -0.100 BETA0 (4) = 0.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
165.000								.5779							
169.000							.7132								
174.000															
180.000	1.1460	.7077	.3101	.4806	.3651	.3933									
X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.0000	-.0415	-.0199	-.0292	-.1113	-.3687	-.3786	-.3689								
40.000	-.0569	-.0416	-.0402	-.4399	-.4916	-.3590	-.3997								
70.000	.0623	-.0130	-.0693	-.0374	-.2892	-.2827	-.2658								
90.000	.0263	-.0127	-.0585	-.1017	-.3126	-.2491	-.2792								
105.000		-.0008	-.0008	-.1716	-.3620	-.3100	-.3082								
110.000															
120.000	.0677	.0861	-.1687	-.5377	-.5567	-.4090	-.4930								
135.000															
150.000	.0469	.1493	.4927	.4631	-.3988	-.5032	-.5180								
165.000	.0492		.3921		-.2406	-.4600	-.2965								
180.000	.0610	.1629	.3424	.5356											

ALPHAX (2) = -4.090 BETA0 (1) = -0.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.0000	1.1870	.5610	.1593	.0464	.0656	.0000									
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
165.000															
169.000															
174.000															
180.000	1.1870	.7093	.3965	.3217	.2955	.3256									
X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.0000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
165.000															
169.000															
174.000															
180.000															



(R81937)

ARC11-716 1A14 01-716-SIZES-AT11 CRG. FUELAG

ALPHAX (2) = -4.000 BETA0 (2) = -4.000

SECTION (1) CRITTER FUELAG DEPENDENT VARIABLE CP

X/LB	.0030	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460
PHI										
120.000	.0430	.0866	.3234	.0192	-.1307	-.0759	-.1287	-.2082		
135.000			.2631	.1964	-.0750	-.0565	-.1669			
150.000	.0884	.1723	.3698	.2493	-.0448	-.0329	-.2076			
165.000	.0889		.3365		.0273	-.0633	-.3408			
180.000	.0483	.1686	.3321	.4993						

ALPHAX (2) = -4.000 BETA0 (3) = .010

SECTION (1) CRITTER FUELAG DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5780
PHI															
20.000	1.2450	.5960	.1590	.0636	.0766	.0000		-.1912	-.2123	-.2939	-.2336	-.0689	.0338	.0812	
40.000		.1963	.0790	.0758	.0693			-.3042	-.2156	-.3348	-.4040	-.0443	.0758	.1217	
60.000		.2629	.0647	.0418	-.0150			-.5577	-.2269	-.2901					
80.000		.3493	.1266	.0406	-.0262			-.3631	-.4375	-.7667	-.4891	.0135	.1169		
100.000		.3933	.1345	.0294	-.0013			-.2193	-.4681	-.7978	-.5980	.0011	.1207		
120.000		.4112	.1903	.0485	.0102			-.1842	-.4331	-.7084	-.9772	-.0422	.1060		
140.000		.4399	.2320	.1775	.2030			.0366	-.5134	-.7428	-.8553	-.3868	-.0009	.1073	
160.000		.4712	.3609	.2836	.3208			.2310	-.7790	-.7672	-.5127	.0130	.1070		
180.000								.5716							
200.000								.6972							
220.000								.8243							
240.000	1.2450	.7223	.4665	.3729	.3293	.3730			-.7852	-.8766	-.4621	.0232	.1036		
260.000	.6030	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					

ALPHAX (2) = -4.000 BETA0 (3) = .010

SECTION (1) CRITTER FUELAG DEPENDENT VARIABLE CP

X/LB	.0000	.0746	.0456	-.1323	-.3717	-.3123	-.3068
PHI							
40.000	.0968	.0746	.0456	-.1323	-.3717	-.3123	-.3068
60.000	.0698	.0831	.1941	-.2031	-.3493	-.3675	-.2605
80.000	.0040	-.0686	-.0289	.0322	-.2336	-.1415	-.1391
100.000	.0373	-.0019	.0236	.0170	-.2372	-.1791	
120.000		.0960	-.0363	-.3040	-.2484	-.1996	
140.000						-.3182	
160.000	.0740	.1123	.1833	-.1233	-.3428	-.2934	-.2741
180.000		.3767	.1786	-.3736	-.1947	-.3402	
200.000	.0943	.1872	.4372	.3228	-.2937	-.1603	-.3766
220.000	.0942		.3681		-.1793	-.1617	-.3420
240.000	.0943	.1867	.3306	.5433			



(RB1837)

ARC11-716 IA14 04-112-312E-5AT11 ORB. FUSELAGE

ALPHAX (2) = -4.080 BETAO (4) = 4.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PWT															
.000	1.2220	.9549	.1297	.0692	.0467	.0000		-.2393		-.2247	-.2678	-.2454	-.1016	-.0004	.0311
20.000			.1410	.0692	.0291	-.0316		-.3409		-.2343					
40.000			.1734	.0273	-.0194	-.1334		-.3256		-.2401	-.3720	-.2708	-.1231	.0235	.0692
55.000			.2110	.0171	-.0640	-.1167		-.4462		-.3902					
70.000			.2317	.0273	-.0690	-.0921		-.3081		-.5244	-.9935	-.4220	-.1726	.1023	
10.000		.3660	.2759	.0564	-.0608	-.0631		-.2796		-.5826	-.3232	-.5242	-.2576	.1158	
120.000			.3303	.1354	.0471	.0959		-.0814		-.5860	-.7627	-.4995	-.2579	.0622	
140.000										-.6069					
150.000			.3663	.2635	.2111	.2448				-.6264	-.6608	-.4611	-.0792	.0637	
171.000								.0591							
196.000								.4510							
182.000								.2220							
165.000										-.7197	-.6615	-.9059	-.0317	.0561	
188.000															
174.000						.7761		.6336							
160.000	1.2220	.6908	.6616	.3712	.3183	.3567		.6333		-.9468	-.7916	-.3037	-.0160	.0692	

W/LB	.0000	.7500	.7610	.8230	.8620	.9630	1.0210	1.0480
PWT								
.000	.0684	.0634	.0241	-.3155	-.4416	-.3479	-.4078	-.2757
40.000	.0316	.0200	.0522	-.4012	-.4946	-.3425	-.2700	-.2503
70.000	.0213	-.0537	-.0726	-.0175	-.2975	-.2387	-.2277	-.2321
90.000	.0514	.0045	-.0304	-.0980	-.3066	-.2566	-.2759	-.2565
105.000			.0316	-.1321	-.3490	-.3344	-.3183	-.2403
110.000								
120.000			.0684	.0634	.0241	-.3155	-.4416	-.3479
135.000			.2821	.0963	-.5931	-.4100	-.4456	
150.000	.0734	-.1644	.4406	.3633	-.3728	-.4167	-.4332	
165.000	.0791		.3667		-.7267	-.4149	-.3061	
180.000	.0741	.1680	.3340	.9186				

ALPHAX (2) = -4.110 BETAO (9) = 6.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PWT															
.000	1.1500	.9017	.0911	.0323	.0292	.0000		-.2204		-.3230	-.4111	-.3051	-.1921	-.0935	-.0939
20.000			.0698	-.0107	-.0091	-.1801		-.2635		-.3132					
40.000			.6328	-.0482	-.0775	-.2456		-.3220		-.3496	-.4435	-.2628	-.2211	-.0536	.0200
55.000			.0800	-.0737	-.1363	-.1930		-.4000		-.4188					
70.000			.1205	-.0760	-.1617	-.1511		-.4063		-.4998	-.4473	-.4703	-.2619	.0708	
90.000		.1280	.1423	-.0647	-.1660	-.1519		-.3939		-.6307	-.4934	-.3222	-.3647	.0695	

801837

ALPHA(2) = -4.110 BETA(2) = 0.110

SECTION (1) ORBITER FUELAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PWT															
120.000			.2070	.0137	-.0900	-.0224		-.2271		-.7156	-.5412	-.4963	-.3306	.0411	
140.000										-.9323					
150.000			.2021	.2240	.1303	.1563				-.8395	-.9176	-.3991	-.1961	-.0164	
171.000										-.0912					
196.000										.3146					
162.000										.1161					
169.000											-.7952	-.6163	-.4694	-.1015	-.0257
174.000							.6865		.5471						
190.000	1.1500	.6203	.4209	.3315	.2763	.3219		.5963		-.9352	-.7114	-.6099	-.0733	-.0146	
W/LB	.6500	.7300	.7610	.6230	.6620	.9250	.9630	1.0020	1.0210	1.0460					

SECTION (1) ORBITER FUELAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PWT															
40.000	.0026	.0153	-.0022	-.1670	-.4040	-.3765	-.3509			-.2675	-.2661				
70.000	.0039	.0014	.0720	-.3968	-.9223	-.3729	-.3156			-.2636	-.2628				
90.000	.0277	-.0479	-.0940	-.0708	-.3160	-.2766	-.2317								
105.000	.0279	-.0194	-.0730	-.1143	-.3622	-.2968	-.2944								
110.000		-.0090	-.1744	-.4096	-.3643	-.3260				-.2711					
120.000	.0433	.0696	-.1157	-.4454	-.5914	-.4179	-.4813			-.3167					
135.000			.4273	-.0637	-.7432	-.7302	-.3763								
150.000	.0305	.1290	.4340	.4272	-.4376	-.5544	-.3237								
165.000	.0162		.3963		-.2946	-.3136	-.3074								
190.000	.0155	.1221	.3032	.4631											

ALPHA(3) = -.310 BETA(3) = -0.040

SECTION (1) ORBITER FUELAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PWT															
20.000															
40.000			.1680	.0168	.0363	.0000				-.1692					
70.000			.2646	.0975	.0731	.2459				-.3163					
90.000			.4896	.2086	.1361	.1263				-.1435					
110.000			.6220	.3712	.2307	.1863				-.0049					
130.000			.6987	.4130	.2765	.2094				-.0469					
150.000	.8676	.6379	.4267	.2675	.2240					-.0694					
170.000		.3784	.3689	.2973	.3071					-.2694					
190.000		.4300	.3023	.2342	.3066					-.1767					
191.000										-.2206	-.9469	-.7703	-.0676	-.0194	
196.000										.3671					
162.000										.6853					.4166



ARC11-716 IAI14 OI-TIE-SIZES*AT11 CRB. PUSBLAGE

(R81637)

ALPHAO (1) = -.310 BETAO (1) = -0.040

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PWT						.7033									
165.000															
169.000															
174.000															
180.000	1.1620	.6215	.3015	.2323	.2034	.2576	.7974								
W/LB	.6630	.7900	.7610	.6230	.6020	.9230	.9630	1.0020	1.0210	1.0490					

PWT

.000	.1760	.1745	.1907	.1116	-.0878	-.3918	-.2972								
40.000	.2091	.2695	.4716	.1995	-.0714	-.5072	-.3415								
70.000	-.1059	-.3308	-.0432	.1372	.0109	.0746	-.0223								
105.000	-.0746	-.2590	.0446	.1406	-.0062	.0605	-.0634								
110.000			.1729	.0676	-.0358	-.0167	-.0836								
120.000	-.1287	-.1136	.3455	.1570	-.0106	.0039	-.0673								
135.000			.4444	.0636	-.0006	.0220	-.1035								
150.000	-.0648	.0908	.2545	.1104	.0641	.0356	-.2271								
165.000	-.0488		.2352		.1206	.0233	-.3531								
180.000	-.0489	.0799	.2558	.3791											

ALPHAO (2) = -.380 BETAO (2) = -4.000

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PWT															
20.000															
40.000															
56.000															
70.000															
90.000															
120.000															
140.000															
150.000															
165.000															
180.000															
W/LB	.6630	.7900	.7610	.6230	.6020	.9230	.9630	1.0020	1.0210	1.0490					

ARC11-716 1A14 01-118-01282-AT11 CRB. PUBLJAE

0010371

ALPHAO (3) = -.300 BETA0 (2) = -4.000

SECTION (1) ORBITER PUBLJAE DEPENDENT VARIABLE CP

I/L/S	.0000	.7000	.7010	.0020	.0000	.0020	.0000	.0000	1.0000	1.0020	1.0000
PHI											
.000	.1904	.1470	.1447	.0096	-.4576	-.3302	-.3033			-.2387	-.2191
20.000	.1025	.2264	.3075	.0724	.0090	-.4022	-.3103			-.2705	-.2733
40.000	-.0944	-.2396	-.0804	.0033	-.2196	-.0793	-.0619				
60.000	-.0543	-.1778	.0118	.0735	-.2530	-.0028	-.1133				
80.000		.1300	-.0060	-.3096	-.1648	-.1332					
100.000							-.3036				
120.000	-.0400	-.0003	.2707	.0393	-.3005	-.2145	-.1339				
140.000			.9116	.1301	-.2326	-.1510	-.1064				
160.000	.0022	.1116	.3290	.1874	-.1339	-.1232	-.3073				
180.000	.0100	.0870		-.0787	-.1337	-.3387					
200.000	.0092	.1216	.2031	.4260							

ALPHAO (3) = -.300 BETA0 (3) = .040

SECTION (1) ORBITER PUBLJAE DEPENDENT VARIABLE CP

I/L/S	.0000	.0000	.0020	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2950	.3010	.3790	.4990	.3760
PHI															
.000	1.2390	.6111	.1363	.0226	.0342	.0000				-.1913	-.2293	-.1996	-.0633	.0601	.1014
20.000		.1021	.0316	.0344	.0502					-.1019					
40.000		.2728	.0331	.0047	-.0402					-.1732	-.3101	-.3302	-.0632	.0766	.1399
60.000		.3308	.0099	-.0032	-.0506					-.2014					
80.000		.3480	.1128	-.0067	-.0329					-.2354	-.7809	-.4630	-.0143	.0794	
100.000	.9279	.3035	.1239	-.0014	.0027					-.4228	-.7013	-.5464	-.0143	.0949	
120.000		.3808	.1721	.1099	.1686					-.4356	-.7002	-.9133	-.0361	.0941	
140.000		.3754	.2025	.1706	.2303					-.9232	-.9147	-.6942	-.0327	.0941	
160.000									.2122	-.6102					
180.000								.5303							
200.000									.2934						
220.000										-.8216	-.6314	-.9752	-.0023	.0000	
240.000								.6711							
260.000							.7917								
280.000	1.2390	.6096	.5964	.2791	.2300	.3016		.6430		-.9142	-.9303	-.5402	.0000	.0960	
300.000	.6300	.7000	.7010	.0230	.0000	.0230	.9600	1.0020	1.0020	1.0020	1.0000	1.0400			

ALPHAO (3) = -.300 BETA0 (3) = .040

SECTION (1) ORBITER PUBLJAE DEPENDENT VARIABLE CP

I/L/S	.0000	.7000	.7010	.0020	.0000	.0020	.0000	.0000	1.0000	1.0020	1.0000
PHI											
.000	.1210	.1016	.0477	-.1000	-.3601	-.3024	-.3007			-.2409	-.2316
20.000	.1040	.1102	.1037	-.1040	-.3343	-.3402	-.2975			-.2608	-.2609
40.000	-.0033	-.1013	-.0814	.0334	-.2770	-.2300	-.1967				
60.000	-.0303	-.1030	-.0236	-.0014	-.3008	-.3021	-.2399				
80.000		.0007	-.0704	-.3316	-.3487	-.3400					
100.000							-.2706				



ARC11-716 IAI4 CRT-TO-SIZE-MAT11 CRB. PUBLJAE

08168371

ALPHAO(3) = -.300 BETAO (3) = 0.120

SECTION (1)CIBITER PUBLJAE DEPENDOR VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1360	.1670	.1700	.2000	.2200	.3010	.3700	.4000	.5700
P41	1.1400	.0000	.0002	.0074	-.0104	.0000		-.2000		-.2113	-.2403	-.2700	-.1000	-.0500	-.0148
20.000	.0470	-.0021	-.0503	-.0095			-.2430		-.2700		-.2937	-.3000	-.1700	-.0100	.0942
40.000	.0004	-.1040	-.1370	-.2042			-.3110		-.2942		-.3070	-.3000	-.1700	-.0100	.0942
60.000	.0430	-.1201	-.2020	-.2404			-.3330		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
80.000	.0001	-.1344	-.2427	-.1830			-.4290		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
100.000	.0000	-.0000	-.1170	-.2400	-.1025		-.4100		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
120.000	.1312	-.0375	-.1377	-.0705			-.2310		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
140.000	.2137	.1303	.0410	.0000			-.0070		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
160.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
180.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
200.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
220.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
240.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
260.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
280.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
300.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
320.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
340.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
360.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
380.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
400.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
420.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
440.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
460.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
480.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942
500.000							.0000		-.3070		-.3070	-.3000	-.1700	-.0100	.0942

ALPHAO(4) = 4.000 BETAO (4) = -0.040

SECTION (1)CIBITER PUBLJAE DEPENDOR VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1360	.1670	.1700	.2000	.2200	.3010	.3700	.4000	.5700
P41	1.1000	.0045	.1000	.0001	.0130	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
20.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
40.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
60.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
80.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
100.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
120.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
140.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
160.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
180.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
200.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
220.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
240.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
260.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
280.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
300.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
320.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
340.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
360.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
380.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
400.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
420.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
440.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
460.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
480.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400
500.000	.0000	.0000	.0000	.0000	.0000	.0000		-.1011		-.1423	-.1005	-.1430	-.0002	.0000	.1400





DATE 09 DEC 74

TABULATED PRESSURE DATA - IAI4A - VOL. 3

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ARC11-716 IAI4 ON-YIG-SIDES-AT11 ORG. PURCHASE

OR10377

ALPHA1 (1) = 4.000 BETA1 (1) = -0.010

SECTION (1) ORBITER PURCHASE DEF-DEFOR VARIABLE CP

W/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
PW1														
120.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
140.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
170.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
190.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
195.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
198.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
199.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
199.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
199.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
199.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650

PW1

40.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
70.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
105.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
110.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
120.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
135.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
198.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
198.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
199.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
199.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650

ALPHA1 (1) = 4.000 BETA1 (1) = -0.010

SECTION (1) ORBITER PURCHASE DEF-DEFOR VARIABLE CP

W/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
PW1														
30.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
40.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
70.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
90.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
105.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
110.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
120.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
135.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
198.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
198.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
199.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
199.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650
199.000	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650

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ARC11-716 1A14 CR-112-91829-AT11 CRB. FUSelage (R01037)

ALPHACX 4) = 4.000 BETA0 (2) = -4.010

SECTION (1)-ORBITER FUSelage DEPENDENT VARIABLE CP

X/LB	0.000	0.000	0.020	0.040	0.070	0.110	0.150	0.170	0.200	0.220	0.3010	0.370	0.490	0.5700
PWT														
165.000														
166.000														
174.000														
182.000														
X/LB														
PWT														
0.000														
40.000														
70.000														
90.000														
103.000														
110.000														
120.000														
135.000														
150.000														
165.000														
180.000														

ALPHACX 4) = 4.000 BETA0 (3) = .030

SECTION (1)-ORBITER FUSelage DEPENDENT VARIABLE CP

X/LB	0.000	0.000	0.020	0.040	0.070	0.110	0.150	0.170	0.200	0.220	0.3010	0.370	0.490	0.5700
PWT														
20.000														
40.000														
55.000														
70.000														
90.000														
120.000														
140.000														
151.000														
156.000														
165.000														
169.000														
174.000														
180.000														



DATE 09 DEC 74 TRANSLATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 01+112+81282+AT11 CRG. FUELRAGE (081037)

ALPHAX (4) = 4.080 BETA0 (3) = .030

SECTION (1) CRIBITER FUELRAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7920	.7610	.6230	.6220	.9230	.9430	1.0020	1.0210	1.0420
PWT										
.000	.1966	.1234	.0993	-.1633	-.3200	-.2976	-.2961		-.2303	-.2329
40.000	.1489	.1354	.2005	-.1306	-.9203	-.3444	-.2919		-.2456	-.2346
70.000	-.1592	-.3437	-.2396	-.0039	-.3006	-.3466	-.2200			
90.000	-.1091	-.2672	-.1416	-.0462	-.3473	-.3399	-.3786			
105.000			-.0208	-.1367	-.4019	-.4324	-.4254			
110.000										-.2422
120.000	-.0998	-.0221	.0921	-.1111	-.4428	-.3679	-.4635			-.1651
135.000			.4429	.0701	-.4282	-.3486	-.4164			
150.000	-.0048	.0790	.2893	.1696	-.3664	-.3225	-.3764			
160.000	-.0095		.2238		-.2531	-.3745	-.2949			
180.000	.0042	.0690	.2122	.4131						

ALPHAX (4) = 4.080 BETA0 (4) = 4.100

SECTION (1) CRIBITER FUELRAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.3760
PWT															
.000	1.1910	.6920	.1344	.0198	-.0062	.0000		-.2156		-.1095	-.1499	-.1320	-.0327	.0536	.0965
20.000			.1414	.0019	-.0235	-.0796		-.3025		-.1201					
40.000			.1699	-.0105	-.0716	-.1876		-.2017		-.1576	-.2364	-.2192	-.0530	.0690	.1237
55.000			.1848	-.0295	-.1283	-.1600		-.2317		-.2181					
70.000			.2017	-.0323	-.1364	-.1396		-.2772		-.2906	-.7348	-.4663	-.0681	.0492	
90.000		.2885	.1532	-.0349	-.1685	-.1004		-.2485		-.3656	-.7824	-.4779	-.0684	.0693	
100.000			.2246	.0292	-.0797	.0467		-.0364		-.3420	-.7716	-.5979	-.1601	.0622	
140.000															
150.000			.2279	.1355	.0346	.1492			.0775	-.9249	-.9663	-.4143	-.1299	.0872	
151.000								.4239							
196.000									.1696						
160.000										-.0777	-.9506	-.4633	-.0912	.0769	
169.000															
174.000						.7127									
180.000	1.1910	.4846	.2394	.1793	.1292	.2201		.5784		-.10210	-.6758	-.5322	-.0787	.0763	
W/LB	.6530	.7300	.7610	.6230	.6220	.9230	.9430	1.0020	1.0210	1.0420					
PWT															
.000	.1328	.1135	.0699	-.1429	-.4003	-.3366	-.2614		-.2311	-.2106					
40.000	.1175	.0991	.1099	-.3325	-.4600	-.3218	-.2456		-.2076	-.2121					
70.000	-.1260	-.2871	-.2021	-.0620	-.3541	-.3793	-.3303								
90.000	-.0993	-.1939	-.1324	-.1110	-.3493	-.4264									
105.000			-.0378	-.1964	-.4288	-.4670	-.4608								
110.000															-.2102

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ALPHAX (4) = 4.020 BETA (4) = 4.100

SECTION (1) ORBITER FUELSAGE DEPENDENT VARIABLE CP

X/LB	.6500	.7500	.7610	.8250	.8620	.9250	.9630	1.0020	1.0210	1.0460
PHI										
120.000	-.0032	-.0348	0.402	-.2448	-.4844	-.4598	-.9307	-.2106		
135.000		.4391	0.290	-.5293	-.4808	-.9020				
150.000	-.0095	0.627	.2929	.1960	-.4431	-.5084	-.4076			
165.000	-.0060		.2306		-.3120	-.3294	-.2745			
180.000	-.0171	.0553	.2039	.4217						

ALPHAX (4) = 4.010 BETA (5) = 9.140

SECTION (1) ORBITER FUELSAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
20.000	1.1140	.5656	.0716	-.0307	-.0688	.0000		-.2025		-.1614	-.2410	-.2250	-.1483	-.0303	.0043
40.000		.0369	-.0630	-.0946	-.2304			-.2237		-.2140					
60.000		.0069	-.1326	-.1626	-.3492			-.2546		-.2323	-.3207	-.2757	-.1489	.0026	.0731
80.000		.0166	-.1634	-.2394	-.3254			-.2007		-.2996					
100.000		.0450	-.1660	-.2655	-.2092			-.1718		-.3546	-.7744	-.3482	-.1494	.0509	
120.000		.0283	.0054	-.1539	-.2799	-.1904		-.2488		-.4910	-.5158	-.3033	-.1091	.0630	
140.000		.0956	-.0938	-.2108	-.0694			-.1882		-.6519	-.7281	-.3148	-.2136	.0612	
160.000		.1314	.0470	-.0302	.0348					-.9800	-.9814	-.10140	-.4860	-.3409	.0410
180.000									-.0947						
200.000								2.770	.0302						
220.000										-.9172	-.9430	-.9900	-.1037	.0165	
240.000															
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															

X/LB	.6500	.7500	.7610	.8250	.8620	.9250	.9630	1.0020	1.0210	1.0460
PHI										
40.000	.0710	.0682	.0447	-.1872	-.4408	-.3326	-.2913			
60.000	.0760	.0849	.1353	-.3475	-.5082	-.3243	-.2611			
80.000	-.1366	-.1923	-.1956	-.1130	-.4083	-.3685	-.2329			
100.000	-.0933	-.1340	-.1434	-.1487	-.4458	-.3990	-.3148			
120.000		-.0672	-.2200	-.4941	-.4875	-.3687				
140.000		-.0448	-.0146	.0239	-.3353	-.5649	-.5091	-.5256		
160.000			.3477	.0086	-.7096	-.6176	-.3795			
180.000		-.0492	.0324	.2368	.2233	-.3013	-.6170	-.4824		
200.000		-.0663		.2103		-.3090	-.5799	-.2965		
220.000		-.0917	.0297	.1943	.2932					



ARC11-716 IA14 OR-T12-S12829-AT11 CRB. FUSELAGE

(RS1837)

ALPHAO (1) = 7.940 BETAO (1) = -8.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.1130	.0752	.1686	-.0145	-.0068	.0000	-.2054	-.0957	-.1166	-.0925	-.0453	.0771	.1431	
20.000			.5347	.1037	.0204	.2439		-.1822	-.0741						
40.000			.5921	.2681	.1427	.1087		-.1515	-.0575	-.1027	-.0429	-.0194	.1612	.2343	
60.000				.6903	.4242	.2683	.1372	-.0022	.0119						
80.000				.6691	.4171	.2416	.1531	.0556	-.0154	-.4270	-.1321	-.1626	.0626		
100.000			.8130	.5619	.2657	.1964	.1751	.0829	-.0733	-.4794	-.1865	-.2653	.0401		
120.000				.4093	.1616	.1016	.1603	.2355	-.1204	-.5177	-.6552	-.6239	-.2970		
140.000									-.2168						
160.000			.1942	.0674	.0112	.1360		.3475	-.3303	-1.0570	-.6298	-.3368	-.0617		
180.000								.6510							
200.000								.3295	-.9341	-.9925	-.5643	-.3265	-.0366		
220.000															
240.000															
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															
520.000															
540.000															
560.000															
580.000															
600.000															
620.000															
640.000															
660.000															
680.000															
700.000															
720.000															
740.000															
760.000															
780.000															
800.000															
820.000															
840.000															
860.000															
880.000															
900.000															

ALPHAO (2) = 7.940 BETAO (2) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.1688	.0687	.1629	.0347	.0170	.0000	-.1726	-.0957	-.0912	-.0606	-.0264	.0795	.1461	
20.000			.2696	.0903	.0366	.1713		-.1756	-.0662						
40.000			.4755	.1976	.0976	.0347		-.3679	-.0940	-.1534	-.0744	-.0276	.1349	.2321	
60.000				.5336	.2865	.1454	.0195	-.1970	-.0596						
80.000				.5155	.2729	.1115	.0464	-.0832	-.1012	-.3409	-.2256	-.2156	.0436		
100.000			.6252	.4493	.2442	.0674		-.0425	-.1649	-.5766	-.2916	-.2377	.0436		

MFC11-716 1A14 01-712-5125-AT11 CRG. FUELSLAGE (R81237)

ALPHAOI 5) = 7.940 BETAO (2) = -4.010

SECTION (1)ORBITER FUELSLAGE		DEPENDENT VARIABLE CP										
V/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	
PHI												
120.000		.3307	.0878	.0312	.1236	.1737						
140.000												
150.000		.2105	.0507	.0180	.1540							
151.000						.2840						
156.000							.3174					
162.000												
169.000												
174.000												
180.000	1.1080	.4241	.1320	.0752	.0423	.1963	.7208	.5109				
V/LB	.0530	.7300	.7610	.8250	.8820	.9230	.9630	1.0020	1.0210	1.0400		

SECTION (1)ORBITER FUELSLAGE		DEPENDENT VARIABLE CP									
V/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500
PHI											
.000	.1908	.1653	.1364	-.0040	-.4346	-.3226	-.3049				
40.000	.2173	.2710	.3367	.0109	-.4415	-.4054	-.3165				
70.000	-.1997	-.4930	-.3246	.0038	-.1937	-.1226	-.1296				
90.000	-.1082	-.4075	-.2727	-.0476	-.2344	-.1803					
105.000											
110.000											
120.000	-.2379	-.2501	-.0007	-.0288	-.3889	-.2770	-.1730	-.2395			
135.000											
150.000	-.0368	-.0544	.1645	.0451	-.3759	-.2502	-.2797				
165.000	-.0816										
180.000	-.0316	-.0139	.1211	.3772							
V/LB	.0530	.7300	.7610	.8250	.8820	.9230	.9630	1.0020	1.0210	1.0400	

ALPHAOI 5) = 7.940 BETAO (3) = .040

SECTION (1)ORBITER FUELSLAGE		DEPENDENT VARIABLE CP									
V/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500
PHI											
.000											
20.000											
40.000											
55.000											
70.000											
90.000		.4284									
120.000											
140.000											
150.000											
151.000											
156.000											
162.000											
169.000											
180.000											
V/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500

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ARC11-716 1A14 01+712+S12E5+AT11 CRB. FUSELAGE

(R81257)

ALPHAO1 5) = 7.940 BETA0 (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI								.6102							
165.000															
169.000															
174.000															
180.000	1.1760	.4136	1.1473	.0963	.0635	.1771	.7031	.5729							
X/LB	.6830	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					
PHI															
.000	.1769	.1362	.0879	-.1404	-.3726	-.3068	-.2637								
40.000	.1757	.1639	.2332	-.1164	-.5466	-.3636	-.3016								
70.000	-.1911	-.4543	-.4136	-.0360	-.2669	-.2836	-.1844								
90.000	-.1474	-.3960	-.2413	-.1166	-.3956	-.3173	-.2253								
105.000		-.0844	-.2467	-.4261	-.3949	-.2796									
110.000															
120.000	-.1101	-.1254	-.0067	-.1376	-.4012	-.3497	-.3112								
135.000			.3308	-.0020	-.4678	-.3946	-.3639								
150.000	-.0366	-.0134	.8216	.1013	-.4232	-.4123	-.3293								
165.000	-.0244		.1579	-.2776	-.4169	-.2354									
180.000	-.0214	.0120	.1435	.3723											

ALPHAO1 5) = 7.830 BETA0 (4) = 4.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1630	.6667	1.403	.0232	-.0143	.0000									
20.000			1.467	-.0006	-.0230	-.0591									
40.000			1.716	-.0719	-.0672	-.2049									
50.000			1.741	-.0360	-.1362	-.2060									
70.000			1.721	-.0331	-.1607	-.1369									
90.000	.2269		1.562	-.0666	-.2204	-.1059									
100.000			1.644	-.0449	-.1236	-.0267									
140.000															
150.000			1.426	.0516	-.0470	.1035									
171.000															
174.000															
185.000															
189.000															
194.000															
190.000	1.1669	.8713	1.623	.0879	.0395	1.602									
X/LB	.6668	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					

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0819377

ARC11-716 1A14 C1-712-812M2-AT11 CRG. PUSBLARE

ALPHACI 9 = 7.928 BETA0 (4) = 4.110

SECTION (1)-ORBITER PUSBLARE DEPENDOR VARIABLE CP

X/L/S	.0000	.7500	.7610	.0220	.0620	.9230	.9430	1.0020	1.0210	1.0400
PHI										
.000	.1348	.1022	.0847	-.1548	-.3883	-.3329	-.2866		-.2276	-.2129
40.000	.1276	.1129	.1193	-.3497	-.4641	-.3112	-.2475		-.2053	-.2003
70.000	-.2096	-.3940	-.2901	-.1075	-.3682	-.3633	-.2431			
90.000	-.1498	-.2961	-.1914	-.1475	-.4350	-.4241	-.3049			
100.000		-.0980	-.0980	-.2326	-.4848	-.5111	-.3574			
110.000								-.2241		
120.000	-.0712	-.1011	-.0414	-.2326	-.3232	-.3010	-.2315	-.1939		
130.000			.4199	.0220	-.2163	-.4824	-.5179			
150.000	-.0364	.0000	2+000	.1239	-.4391	-.5039	-.3963			
160.000	-.0924		.1393		-.3112	-.5147	-.2829			
180.000	-.0596	-.0168	.1147	.3990						

ALPHACI 9 = 7.928 BETA0 (5) = 8.180

SECTION (1)-ORBITER PUSBLARE DEPENDOR VARIABLE CP

X/L/S	.3000	.0000	.0220	.0470	.0700	.1120	.1290	.1070	.1790	.2030	.2320	.3010	.3790	.4990	.5790	
PHI																
.000	1.0610	.9875	.0977	-.0490	-.0998	.0000		-.1991		-.1488	-.1079	-.1046	-.1193	-.0229	.0129	
20.000		.0145	-.1043	-.1140	-.2730		-.1990		-.1839		-.2104	-.2987	-.2987	-.1193	.0199	.0037
40.000		-.0211	-.1444	-.1965	-.3913		-.2543		-.2242		-.2242					
60.000		-.0218	-.1922	-.2499	-.3639		-.2599		-.2076		-.2999	-.7226	-.4317	-.1200	.0008	
70.000		.0030	-.1917	-.2923	-.2398		-.2076		-.4340	-.9059	-.4032	-.1093	-.1093	.0320		
90.000		-.0600	-.0483	-.2095	-.3329	-.1737	-.2229		-.0292	-.0744	-.5005	-.1300	-.1300	.0414		
100.000			.0391	-.1494	-.2301	-.0396	-.1227		-.9373							
140.000		.0458	-.0092	-.1300	.0117			-.0936								
150.000								.2073								
160.000									.0229							
180.000										-.9642	-.9657	-.4660	-.2467	.0393		
190.000																
174.000			.1106	.0240	-.0254	.1076	.3706									
160.000	1.0400	.2000	.7500	.1106	.0240	-.0254	.1076	.4210		-.1070	-.9099	-.2446	-.3387	-.0076		
X/L/S	.0000	.7500	.7610	.0220	.0620	.9230	.9430	1.0020	1.0210	1.0400						

X/L/S	.0000	.7500	.7610	.0220	.0620	.9230	.9430	1.0020	1.0210	1.0400
PHI										
.000	.0178	.0577	.0243	-.2090	-.4123	-.3340	-.2729		-.2612	-.2249
40.000	.0009	.0909	.1293	-.3790	-.4971	-.3126	-.2441		-.2294	-.2191
70.000	-.2918	-.2777	-.2443	-.1805	-.4393	-.3594	-.2503			
90.000	-.1804	-.2148	-.1808	-.1804	-.4774	-.3791	-.2793			
100.000		-.0948	-.2390	-.3048	-.4796	-.3399	-.2399			
110.000								-.2827		



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0801037

MC11-716 1A14 01-T12-S12MS+AT11 CRG. PUSBLAGE

ALPHAO (S) = 7.800 BETA0 (S) = 0.100

SECTION (11) CRITER PUSBLAGE DEPENDENT VARIABLE CP

W/LD	.0000	.7000	.7010	.0020	.0020	.9020	.9020	1.0000	1.0020	1.0020	1.0400
RNI											
100.000	-.0005	-.0171	.0008	-.2001	-.2001	-.2001	-.2001	-.2001	-.2001	-.2001	-.2132
125.000			.0037	.0343	-.2005	-.2005	-.2005	-.2005	-.2005	-.2005	-.2031
150.000	-.0005	-.0029	.1702	.0194	-.0030	-.0030	-.0030	-.0030	-.0030	-.0030	-.2033
165.000	-.1206	-.0725	.0725	-.2075	-.2075	-.2075	-.2075	-.2075	-.2075	-.2075	-.2071
180.000	-.1429	-.0721	.0045	.2002							

ARC11-716 1A14 CR12-S12E5-A711 CRB. PUBLAGE

REFERENCE DATA

SRF = 2.4210 SQ.FT. WWP = 29.9000 INCHES
 LRF = 38.7090 INCHES WRP = .0000 INCHES
 DRF = 38.7090 INCHES ZWRP = .0000 INCHES
 SCALE = .0000 SCALE

ALPHA(1) = -8.000 BETA(1) = -8.000

PARAMETRIC DATA

WICH = 1.050 ELEVON = .000
 RUDDER = .000 SPOCRK = .000

SECTION (1) CRIBITER PUBLAGE		DEPENDENT VARIABLE CP												
X/LB		.0000	.0080	.0200	.0478	.0700	.1120	.1700	.1670	.2030	.3010	.3790	.4990	.5760
PWL	.000	1.2400	.6109	2.4028	.1803	2.224	.0000	-.1026	-.1448	-.0870	-.2237	-.2474	-.0660	.0379
	80.000		3.384	2.336	2.231	3.879	-.1983	-.1983	-.0319					
	40.000		5.442	3.083	2.336	2.479	-.2048	-.2048	-.1151	-.2722	-.1404	-.1930	-.1121	.1493
	99.000		7.013	4.725	3.680	2.778	.0244	.0244	-.0407					
	70.000		7.816	5.910	4.225	3.380	.1340	.1340	.0056	-.4489	-.1872	-.1271	-.0499	
	98.000	1.8150	8.003	5.846	4.508	3.817	.1884	.1884	-.0237	-.3713	-.2642	-.1874	-.0375	
	100.000		8.028	6.183	5.267	5.149	.4063	.4063	.0498	-.2899	-.3642	-.1319	-.1071	
	140.000								.0926					
	130.000								.0384	-.6213	-.3873	-.1787	-.1829	
	191.000							.5713						
	194.000							.6284						
	182.000							.5940						
	149.000								-.5037	-.5491	-.3902	-.2153	-.2393	
	174.000													
	160.000	1.5488	.8788	5.846	3.083	4.748	.4988	.4988	-.6783	-.4898	-.3684	-.2709	-.2930	
X/LB	.0000	.7800	.7810	.8230	.8820	.9230	.9430	1.0020	1.0460					
PWL	.000	1.882	2.106	1.937	3.008	4.221	3.751	-.2995	-.2960					
	40.000		2.195	4.747	1.808	3.206	4.067							
	70.000		4.091	4.824	2.840	1.885	1.136							
	98.000		4.882	1.101	2.885	1.317	3.883							
	100.000		3.933	3.483	1.184	1.316	3.873							
	118.000							-.2442						
	128.000							-.1199						
	136.000													
	170.000													
	168.000													
	160.000													
	160.000													

ORIGINAL PAGE IS
 OF POOR QUALITY



ARC11-716 1A14 01-718-212MS-AT11 CRG. PURCHASE (8181330)

ALPHAO 1) = -0.070 BETA 0) = -4.000

SECTION (1) CRATER FURBLAGE DEPENDENT VARIABLE CP

Z/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1970	.2390	.3010	.3700	.4000	.5700	
PWT	.000	1.2870	.6443	.2919	.2090	.2453	.0000	-.0017	-.1929	-.1409	-.2023	-.2202	-.0000	.0300
80.000				.3475	.2096	.2453	.3404	-.3402	-.1012					
40.000				.4999	.2090	.2459	.2101	-.4226	-.1299	-.2415	-.2005	-.2202	-.1013	.1241
96.000				.6221	.3969	.3042	.2090	-.0019	-.0729					
70.000				.6075	.4816	.3352	.2659	.0523	-.0626	-.3105	-.2329	-.1001	-.0065	
90.000		.9100		.7107	.5041	.3651	.3072	.0084	-.1475	-.4216	-.3487	-.1796	-.0961	
120.000				.7448	.5502	.4743	.4757	.3316	-.0591	-.3614	-.0165	-.1690	-.1308	
140.000									-.0335					
160.000				.7047	.5601	.5138	.5442	.4076	-.1924	-.0019	-.3901	-.2095	-.1712	
184.000								.7099						
194.000								.5916	-.2102	-.4023	-.3643	-.2404	-.1900	
162.000								.0501						
166.000								.7410	-.0024	-.4750	-.2963	-.2028	-.1691	
169.000							.9790							
174.000														
180.000		1.2870	.0000	.0018	.5409	.5024	.5276	.7410	-.0024	-.4750	-.2963	-.2028	-.1691	
Z/LB	.0000	.0000	.7000	.7010	.6020	.6000	.6020	1.0000	1.0210	1.0400				

PWT	.000	.0002	.1208	.1646	.1295	-.4542	-.3794	-.3925	-.2713	-.2604	-.2092	-.3095
40.000		.0922	.1896	.4075	.1110	-.6903	-.3077	-.3512				
70.000		.1098	.0942	.1896	.2641	.0699	.1455	.0727				
90.000		.1340	.1406	.2306	.2399	.0497	.1436	.0531				
105.000				.3134	.1626	.0299	.0600	.0301	-.2324			
110.000									-.1394			
120.000		.1507	.2343	.4395	.1808	.0578	.0609	.0257				
135.000				.6794	.3787	.1155	.1074	-.0011				
150.000		.1609	.3000	.9131	.4232	.1769	.1450	-.1460				
166.000		.1603		.4754		.2483	.1479	-.2640				
169.000		.1891	.2049	.4722	.0009							

ALPHAO 1) = -0.000 BETA 0) = .000

SECTION (1) CRATER FURBLAGE DEPENDENT VARIABLE CP

Z/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1970	.2390	.3010	.3700	.4000	.5700	
PWT	.000	1.3040	.6400	.2830	.2231	.2392	.0000	-.1172	-.1105	-.2205	-.3417	-.2000	-.0004	.0300
80.000				.3174	.2225	.2340	.2250	-.4190	-.1100					
40.000				.3976	.2293	.1940	.1494	-.3097	-.1040	-.2044	-.2721	-.3024	-.0337	.0757
95.000				.4706	.2701	.1993	.1800	-.1832	-.3097					
70.000				.5040	.3000	.1922	.1692	-.0354	-.2706	-.0003	-.3748	-.2349	-.0077	
90.000								-.0001	-.3034	-.3610	-.5316	-.2232	-.1000	
105.000			.7041	.3916	.3426	.2111	.1696							

ORIGINAL PAGE IS OF POOR QUALITY

MCS11-716 1A14 01-712M-312M-3-AT11 CRG. PURCHASE (861830)

ALPHAO1 (1) = -0.040 BETA0 (3) = .000

SECTION (1) - CRIBBITER P/R/LAGE DEPENDENT VARIABLE CP

Z/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1590	.1670	.1700	.2030	.2350	.3010	.3790	.4090	.5700
PHI															
120.000			.0005	.0346	.3461	.3553	.1940			-.2226	-.5032	-.7794	-.2742	-.1991	
140.000										-.3091					
150.000			.0047	.5403	.4716	.4008				-.0900	-.5944	-.3405	-.3231	-.1400	
174.000							.3019								
176.000							.0967								
182.000								.4776							
186.000										-.9175	-.5079	-.2039	-.3023	-.1990	
189.000															
174.000															
160.000	1.3040	.0000	.0013	.5002	.9104	.5491	.9412	.0000		-.6040	-.6033	-.2399	-.3121	-.1232	

Z/LB .0000 .7000 .7010 .0020 .0000 .0020 .0000 1.0000 1.0000 1.0010 1.0400

PHI

.000	.0740	.0070	.1000	.0131	-.3712	-.3444	-.3233			-.2009	-.2795				
40.000	.0401	.0017	.2201	-.2120	-.5006	-.4303	-.3248			-.2003	-.2814				
70.000	1.0001	.0002	1.0001	.1000	-.0296	-.0700	-.0340								
90.000	1.0004	1.1700	1.0003	1.907	-.0009	-.0109	-.0000								
104.000			.2373	.0000	-.1137	-.0094	-.0046								
110.000								-.3006							
120.000	1.1700	.3400	.2373	-.0021	-.1040	-.0700	-.1719	-.2004							
124.000			.7029	.3291	-.2120	-.0240	-.1679								
128.000	.1040	.3040	.3705	.5003	-.0796	-.0040	-.3405								
160.000	.1007	.2875	.0448	-.0008	-.3243										
160.000	.1000	.3040	.5003	.0000											

ALPHAO1 (1) = -0.070 BETA0 (4) = 4.120

SECTION (1) - CRIBBITER PURCHASE DEPENDENT VARIABLE CP

Z/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1590	.1670	.1700	.1700	.2030	.2350	.3010	.3790	.4090	.5700
PHI																
.000	1.2770	.0004	.0400	.0007	.1901	.0000				-.1135						
50.000			.2302	.1002	.1041	.1113				-.1073						
40.000			.2316	1.1703	1.417	.0400				-.3436						
54.000			.3305	1.0000	1.046	.0417				-.2006						
70.000			.3036	1.1704	.0036	.0040				-.1416						
90.000		.0000	.4114	.2077	.0079	.0717				-.4124	-.0035	-.0007	-.2000	-.0700		
100.000			.4001	.3104	.2145	.2307				-.4007	-.5000	-.0126	-.4302	-.1032		
140.000			.5770	.4014	.4003	.4122				-.5000	-.6130	-.3336	-.3047	-.1004		
150.000																
174.000																
184.000																
182.000																



(R21830)

ARC11-716 IAS14 Q1-V12-S12MS-AT11 CRB. PURCHASE

ALPHA(X) = -0.100 BETA(O) = 0.100

SECTION (1) CRIBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.7000	.7010	.0230	.0020	.0020	.0020	.0020	.0020	1.0020	1.0020	1.0400
PWT												
.000	-0.480	.0125	.0000	-0.049	-0.3943	-0.2443	-0.2443	-0.4140				
40.000	-0.0333	-0.0000	.0072	-0.3016	-0.2093	-0.3093	-0.3016	-0.3016				
70.000	.1435	.1191	.0000	.1750	-0.1776	-0.1200	-0.1332					
90.000	.1136	.1270	.0782	.0032	-0.2004	-0.1401	-0.1743					
100.000		.1900	.0192	-0.2400	-0.1900	-0.2032						
110.000												
120.000	.1300	.2140	-0.0016	-0.3000	-0.3000	-0.2719	-0.3000					
130.000		.2130	.0370	-0.3701	-0.3701	-0.3701	-0.4016					
150.000	.1087	.2300	.9531	.9002	-0.2316	-0.3304	-0.4004					
160.000	.1070	.2070	.0007									
180.000	.1087	.2300	.4334	.0030								

ALPHA(X) = -4.000 BETA(O) = -0.040

SECTION (1) CRIBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1900	.1670	.1900	.2050	.3010	.3700	.4000	.3700
PWT														
.000	1.0000	.0000	.2007	.1400	.1000	.0000								
20.000		.3417	.2100	.1900	.3700									
40.000		.0000	.0000	.0000	.0000	.0000								
50.000		.7000	.4000	.3000	.2700									
70.000		.7000	.0000	.3950	.3104									
90.000		.0010	.7000	.3450	.4020	.3504								
100.000		.7047	.5000	.4570	.4570									
140.000		.0140	.4070	.4007	.4740									
150.000														
170.000														
190.000														
200.000														
220.000														
240.000														
260.000														
280.000														
300.000														

W/LB	.0000	.7000	.7010	.0230	.0020	.0020	.0020	.0020	1.0020	1.0020	1.0400
PWT											
.000	1.0000	.0000	.2000	.1000	.0000						
40.000		.3011	.0100	.2372	.0001	.3333	.3003				
70.000		.0070	.1100	.2000	.0000	.1072	.1000				
90.000		.0020	.1114	.0000	.0000	.1001	.0791				
100.000			.0000	.1000	.1000	.1122	.0547				
110.000											



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ARC11-716 1A14 01-T12-SIZES+AT11 CRB. FUSELAGE (RB1836)

ALPHAXI 2) = -4.090 BETA0 (3) = .040

SECTION (1) ORBITTER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI	1.2880	.0637	.2639	.1796	.1932	.0000		-.0911		-.1112	-.2008	-.2466	-.2014	-.0907	.0528
20.000			.2974	.1806	.1901	.2109		-.3816		-.1065					
40.000			.3793	.1978	.1216			-.4164		-.1520	-.1897	-.2688	-.2763	-.0397	.0979
55.000			.4451	.2364	.1952	.1055		-.1928		-.3303					
70.000			.4879	.2625	.1438	.1297		-.0676		-.2694	-.6075	-.3718	-.2769	-.0978	
90.000		.6988	.5036	.2971	.1927	.1470		-.0327		-.2944	-.6166	-.4833	-.2894	-.1124	
120.000			.5331	.3648	.2826	.3137		.1923		-.2638	-.9271	-.7752	-.2601	-.1430	
140.000										-.3482					
160.000			.5643	.4996	.3822	.4247		.3542		-.5325	-.6517	-.4998	-.3635	-.1428	
180.000								.6869							
198.000								.4807		-.9392	-.9628	-.3736	-.3803	-.1423	
168.000								.7838							
174.000			.9044	.5812	.4750	.4236	.9009	.7673		-.5561	-.6660	-.3427	-.3722	-.1288	
180.000		.6530	.7300	.7810	.6230	.8820	.9630	1.0080	1.0210	1.0480					

SECTION (1) ORBITTER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI	1.1882	.1170	.1118	-.0085	-.3829	-.3307	-.3116		-.2647	-.2698					
20.000			.8205	-.1381	-.5930	-.4072	-.8092		-.2433	-.2716					
40.000		.0597	.0874	.1575	-.0904	-.0919	-.1057								
70.000		.0878	.1360	.1292	-.1090	-.0998	-.1478								
105.000			.2030	.0802	-.1316	-.1673	-.1710								
110.000		.1248	.1988	.2089	.0226	-.2092	-.1413	-.2166							
120.000			.3965	.3130	-.2370	-.1057	-.1940								
135.000		.1480	.2735	.3013	.4413	-.1284	-.1099	-.2752							
168.000		.1485	.4577		-.0022	-.1837	-.3334								
180.000		.1490	.2732	.4446	.3677										

ALPHAXI 2) = -4.090 BETA0 (4) = 4.090

SECTION (1) ORBITTER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI	1.2878	.0622	.2242	.1866	.1658	.0000		-.1125		-.1027	-.2131	-.2936	-.1836	-.0963	.0027
20.000			.2361	.1537	.1513	.0990		-.2086		-.1189					
40.000			.2880	.1402	.1042	.0189		-.3420		-.1764	-.2286	-.3484	-.3191	-.0754	.0200
55.000			.3122	.1360	.0637	.0256		-.2672		-.2490					
70.000			.3496	.1451	.0349	.0483		-.1461		-.3302	-.6790	-.4980	-.2869	-.0523	
90.000		.4574	.3718	.1707	.0445	.0498		-.1185		-.3908	-.7034	-.5679	-.2761	-.0526	

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 1A14 01-T12-S12E8-AT11 CRB. FUSELAGE (R81838)

ALPHA(X) 2) = -4.080 BETA0 (4) = 4.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2920	.3010	.3790	.4990	.5780
PHI															
120.000		.4379	.2592	.1591	.2147		.0686			-.3911	-.6163	-.6465	-.3603	-.0911	
140.000										-.9928					
150.000		.4949	.3930	.3116	.3575					-.6172	-.6742	-.4137	-.4406	-.1487	
191.000							.5009								
196.000															
182.000															
165.000															
169.000															
174.000															
180.000	1.2670	.7748	.5596	.4878	.4132	.4983	.8579								
X/LB	.6690	.7900	.7610	.6250	.6680	.9250	.9650	1.0020	1.0210	1.0440					

PHI

.000	.0717	.0695	.0714	-.1072	-.4256	-.3627	-.3030								
40.000	.0349	.0347	.0886	-.3727	-.4727	-.3722	-.2724								
70.000	.0685	.0566	.0555	.1264	-.1392	-.1430	-.1637								
90.000	.0942	.0908	.0909	.0677	-.1609	-.1606	-.1968								
105.000		.1604	.0074	-.2093	-.2276	-.2297									
110.000															
120.000	.1185	.1857	.0757	-.1385	-.3227	-.2204	-.2972								
135.000		.5336	.2440	-.3665	-.3004	-.3082									
150.000	.1300	.2587	.4987	.4814	-.2035	-.2682	-.3969								
165.000	.1287		.4527	-.0771	-.2560	-.3587									
190.000	.1265	.2595	.4282	.5413											

ALPHA(X) 2) = -4.100 BETA0 (5) = 6.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2920	.3010	.3790	.4990	.5780
PHI															
.000	1.2010	.5681	.1612	.1320	.1488	.0000									
20.000		.1427	.0921	.1136	-.0172										
40.000		.1388	.0681	.0655	-.0761										
55.000		.1747	.0433	.0023	-.0303										
70.000		.2136	.0377	-.0431	.0164										
90.000		.2362	.2594	.0516	-.0223	.0062									
120.000		.3036	.1316	.0517	.1145										
140.000		.3659	.3222	.2336	.2760										
150.000															
151.000															
196.000															
182.000															

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ARC11-716 1A14 01-712-912M23-AT11 CRG. FUSELAGE (831838)

ALPHAO (2) = -4.100 BETAO (5) = 8.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2920	.3010	.3790	.4990	.5760
PHI															
165.000															
168.000															
174.000								.6526							
180.000	1.2010	.7014	.5112	.4234	.3739	.4230	.7806								
X/LB	.6230	.7300	.7610	.8230	.8920	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0091	.0430	.0509	-.1911	-.4413	-.3609	-.3232								
40.070	.0135	.0417	.1202	-.3030	-.4996	-.4022	-.2986								
70.000	.0874	.0420	.0344	.1437	-.1735	-.1829	-.1924								
90.000	.0827	.1067	.0712	.0758	-.2096	-.2040	-.2335								
105.000															
110.000															
120.000	.1047	.1641	-.0114	-.3004	-.3712	-.2828	-.3593								
135.000															
150.000	.0907	.2222	.4760	.5457	-.2573	-.3755	-.5017								
165.000	.0981		.4344		-.1363	-.3373	-.3921								
180.000	.0420	.2089	.3937	.5376											

ALPHAO (3) = -.310 BETAO (1) = -8.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2920	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
105.000															
120.000															
135.000															
150.000															
165.000															
180.000															
X/LB	.6880	.7300	.7610	.8230	.8920	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
105.000															
120.000															
135.000															
150.000															
165.000															
180.000															



ARC11-716 1A14 ORBITER FUSELAGE (RB1836)

ALPHAO(3) = -.310 BETAO (1) = -8.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.2057	.2300	.2536	.1958	-.4085	-.3903	-.3497		-.2587	-.2669
40.000	2.499	3.327	3.454	2.674	-.6623	-.5208	-.3692		-.2891	-.3173
70.000	-.0267	-.2364	-.2438	1.892	-.0365	1.419	.0840			
90.000	.0046	-.1887	.0035	1.994	-.0844	1.330	.0691			
105.000			.1932	1.095	-.1319	.0762	.0426			
110.000								-.2458		
120.000			-.1108	-.1844	.2917	.2953	-.1572	.0654	.0350	-.1240
135.000				.4754	1.684	.0235	.0793	.0095		
150.000			-.0328	.0835	.3193	1.092	1.294	1.191	-.1438	
165.000			-.0162		.3046	.2253	.1108	-.2759		
180.000			-.0017	.1476	.3222	.4129				

ALPHAO(3) = -.320 BETAO (2) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.5760	
PHI																
.000	1.2600	.6849	.2513	.1196	.1626	.0000		-.0821		-.0990	-.1584	-.2658	-.1999	-.0193	.1048	
20.000			.3185	1.582	1.636	.2875		-.4604		-.0474	-.0136	-.0811	-.1741	-.2002	-.0193	.1850
40.000			.4694	2.106	1.647	1.618		-.3745		-.0287	-.0136	-.0811	-.1741	-.2002	-.0193	.1850
55.000			.5625	3.103	2.095	1.561		-.1057		-.0561	-.0561	-.4990	-.2419	-.2510	-.1304	
70.000			.5972	3.474	2.204	1.602		.0110		-.1628	-.4331	-.3277	-.2921	-.1309		
90.000			.7884	.5831	3.557	2.111	.2091	.0499		-.1265	-.4103	-.6488	-.3094	-.2066		
120.000			.5763	.3758	2.878	.3362		.2697		-.1825		-.4365	-.7364	-.5325	-.2960	-.1623
140.000			.5005	.3808	.5192	.3933			.4254							
150.000								.7288								
151.000									.4602							
156.000										-.5944	-.6238	-.5265	-.3295	-.1486		
162.000								.7836								
165.000																
169.000																
174.000						.6944										
180.000	1.2600	.7097	.4317	3.954	.3171	.3834		.6814		-.7205	-.6393	-.4471	-.3743	-.1187		
X/LC	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480						
PHI																
.000	.1667	.1928	.2076	.1182	-.4668	-.3405	-.2951									
40.000	.2013	.2894	.4925	1.172	-.6221	-.4831	-.3302									
70.000	-.0169	-.2066	.0102	1.767	-.0757	-.0689	.0209									
90.000	.0198	-.1436	.0776	1.759	-.1106	-.0990	.0036									
105.000			.1919	.0977	-.1605	-.1712	-.0207									
110.000																

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ARC11-716 1A14 01-112-SIKES-AT11 CRG. FUSELAGE (R81838)

ALPHAO (3) = -.320 BETA0 (2) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6930	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PH1										
120.000	.0091	.0305	.3192	1.499	-1.677	-1.015	-1.1406	-1.198		
135.000		.9709	.2954	-1.1605	-0.188	-1.1443				
150.000	.0968	.1856	.3875	.2856	-0.0631	.0041	-1.2436			
165.000	.0732		.3690		.0661	-0.0025	-1.3229			
180.000	.0796	.2147	.5824	.4341						

ALPHAOX (3) = -.330 BETA0 (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PH1															
.000	1.2620	.6977	.2327	.1130	.1263	.0000									
20.000		.2765	.1231	.1265	.2004										
40.000		.3674	.1482	.1021	.0764										
55.000		.4249	.1691	.0927	.0484										
70.000		.4541	.2106	.0696	.0729										
90.000		.6104	.4280	.2329	.0947	.1120									
120.000			.4818	.2818	.2004	.2616									
140.000			.4651	.3530	.2751	.3510									
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.2620	.7016	.4920	.3643	.3202	.3922									
X/LB	.6930	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PH1															
.000	.1535	.1480	.1242	-.0435	-.3871	-.3087	-.3002								
40.000	.1388	.1754	.2697	-.0937	-.5476	-.3936	-.3013								
70.000	-.0126	-.1331	.0092	.1355	-.1220	-.1374	-.1374								
90.000	.0324	-.0451	.0687	.0997	-.1477	-.1469	-.1903								
105.000			.1405	.0451	-.1901	-.1111	-.1151								
110.000															
120.000	.0734	.1344	.1621	.0310	-.2599	-.1777	-.2599								
135.000			.4043	.3068	-.2412	-.1484	-.2269								
150.000	.1034	.2243	.3907	.3707	-.1988	-.1982	-.2977								
165.000	.1045		.3756		-.0375	-.1732	-.3290								
180.000	.1103	.2240	.3680	.4761											



DATE 08 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

MRC11-716 1A14 ORBITER FUELAGE (RB1836)

ALPHAOX 3) = -.280 BETAO (4) = 4.090

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

Table with columns X/L/S and PH1, showing fuelage data for X/L/S values from 0.000 to 1.000. Values range from -0.753 to 0.437.

X/L/E 1.2880 .6730 .7300 .6230 .6620 .9230 .9630 1.0020 1.0210 1.0480

Table with columns PH1 and PH2, showing fuelage data for PH1 values from 0.000 to 1.000. Values range from -0.2420 to 0.2222.

ALPHAOX 3) = -.330 BETAO (5) = 0.130

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

Table with columns X/L/S and PH1, showing fuelage data for X/L/S values from 0.000 to 1.000. Values range from -1.026 to 0.194.

ARC11-716 1A14 OR-TIEM-SIEM-S-AT11 CRB. PUSBLAGE (R01230)

ALPHAOX 3) = -.336 BETAO (5) = 0.130

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
120.000		.2368	.0619	-.0446	.0691	-.0744				-.5416	-.7300	-.9234	-.3377	-.0474	
140.000										-.7457					
150.000		.2936	.2276	.1364	.2006					-.7264	-.7971	-.5070	-.5179	-.1146	
151.000						.4109									
156.000															
162.000															
169.000															
174.000															
190.000	1.1660	.9669	.3966	.3120	.2661	.3346	.7557			-.7698	-.6309	-.5427	-.3636	-.2378	

W/LB .6880 .7300 .7910 .8230 .8420 .8630 .9480 1.0020 1.0210 1.0460

PHI

.000	.0344	.0484	.0746	-.2094	-.4203	-.3606	-.3115								
40.000	.0562	.0832	.1469	-.2693	-.5051	-.3611	-.2820								
70.000	-.0146	-.0216	-.0134	.0990	-.2114	-.2306	-.2329								
90.000	.0290	.0408	.0320	.0457	-.2358	-.2501	-.2649								
105.000		.1061	-.0324	-.2739	-.3035	-.3078									
110.000															
120.000	.0280	.1400	.0714	-.2172	-.3569	-.3242	-.3907								
139.000		.2624	.1691	-.5394	-.5069	-.4493									
150.000	.0280	.1606	.3439	.4668	-.3040	-.4161	-.3176								
165.000	.0358	.3404													
180.000	.0131	.1391	.3104	.4454											

ALPHAOX 4) = 4.020 BETAO (1) = -8.020

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1860	.7042	.2421	.0202	.0742	.0000									
20.000		.3657	.1431	.0752	.3539										
40.000		.0086	.2903	.1996	.1976										
55.000		.7202	.4410	.2835	.2005										
70.000		.7270	.4997	.2846	.2256										
90.000	.9050	.6892	.4479	.2744	.2909										
120.000		.9549	.3172	.2417	.2901										
140.000															
150.000		.3715	.2369	.1682	.2656										
151.000															
156.000															
162.000															



(R81838)

ARC11-716 1A14 01-712-SIGNE-AT11 CRG. FUSELAGE

ALPHAX (4) = 4.000 BETA0 (2) = -4.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.2237	.2230	.2181	.1176	-.4949	-.3320	-.2670		-.2273	-.2278
40.000	-.2372	-.3297	-.4693	-.1971	-.6233	-.4784	-.3221		-.2347	-.2779
70.000	-.0391	-.2393	-.3432	-.1080	-.1237	-.1712	-.1056			
90.000	-.0277	-.2339	-.1004	.0630	-.1630	-.1661	-.1741			
105.000			.0981	-.0464	-.2260	-.2780	-.2164			
110.000								-.1713		
120.000	-.0621	-.1428	-.1864	.1234	-.2760	-.2092	-.2332	-.0847		
135.000			.4480	.1372	-.2643	-.1032	-.2053			
150.000	.0209	.1068	.3063	.1914	-.1327	-.0757	-.2854			
165.000	.0387		.2863		-.0071	-.0697	-.3318			
180.000	.0327	.1470	.2676	.3372						

ALPHAX (4) = 4.000 BETA0 (3) = .030

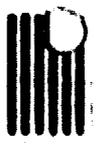
SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2070	.2320	.3010	.3790	.4990	.5780
PHI															
.000	1.2830	.7807	.2124	.0916	.0965	.0000		-.1422	-.0368	-.0723	-.1049	-.1056	.0363	.1269	
20.000			-.2638	-.1047	.0661	.1701		-.2671	-.0436						
40.000			.3663	.1433	.0769	.0299		-.5336	-.0109	-.1497	-.2164	-.1906	.0342	.1724	
55.000			.4211	.1832	.0372	-.0202		-.2244	-.0039						
70.000			.4363	.1901	.0436	.0201		-.1120	-.2372	-.4966	-.3243	-.2543	-.0099		
90.000	.3721	.4173	.1803	.0394	.0394		-.0820	-.0820	-.2632	-.5030	-.3663	-.3283	.0086		
120.000			.4063	.1936	.0969	.1840		.1740	-.2747	-.5943	-.6996	-.3217	-.0241		
140.000									-.3739	-.6433	-.6177	-.6263	-.3031	.0030	
150.000			.3982	.2326	.1367	.2331		.3044							
151.000								.6243							
156.000									.3719	-.6630	-.7083	-.3268	-.3268	.0006	
165.000								.7202							
169.000															
174.000						.6172		.6884							
180.000	1.8800	.9839	.3226	.2414	.1841	.2908			-.8440	-.7883	-.4907	-.3397	.0012		

ALPHAX (4) = 4.000 BETA0 (3) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1884	.1771	.1373	-.0543	-.3948	-.3016	-.2819		-.2273	-.2373
40.000	-.1888	-.2190	-.2703	-.0492	-.9409	-.3633	-.3009		-.2338	-.2463
70.000	-.0428	-.2823	-.2288	.0823	-.1381	-.2101	-.2268			
90.000	-.0136	-.1971	-.0709	.0433	-.2048	-.2169	-.2329			
105.000			.0428	-.0370	-.2317	-.2891	-.2317			
110.000								-.3421		



ARC11-716 1A14 CH-112-012E3-AT11 CRG. PUBLAGE (M81639)

ALPHAO1 4) = 4.000 BETA0 (9) = 6.100

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1790	.1070	.1790	.2030	.2320	.3010	.3790	.4990	.5700
PWT	.000	1.1950	.0104	.0008	.0006	-.0194	.0000	-.1007	-.1072	-.1251	-.2196	-.2184	-.0790	.0021	
20.000				.0544	-.0396	-.0209	-.0756	-.1676	-.1909	-.1992	-.2990	-.2112	-.0314	.0904	
40.000				.0376	-.0674	-.0561	-.1906	-.3302	-.1330	-.2645	-.6065	-.4607	-.3095	.0047	
50.000				.0724	-.0918	-.1116	-.2078	-.3132	-.4874	-.6370	-.9284	-.2436	.0212		
70.000			.0761	.0915	-.0708	-.1422	-.1395	-.2684	-.5416	-.7731	-.7731	-.2627	.0161		
100.000			.1097	-.0099	-.1118	.0101	-.0739	-.7570	-.7710	-.6466	-.5719	-.3947	-.0173		
140.000			.1964	.1230	.0299	.1207	.0278								
150.000							.3631								
175.000							.1759								
182.000							.5755								
199.000							.5968								
174.000															
190.000	1.1000	.6980	.2759	.1801	.1339	.2300	.6906	.5968	-.6104	-.7250	-.6199	-.4369	-.0903		
W/LB	.0000	.7000	.7010	.6230	.6620	.6230	.9430	1.0020	1.0210	1.0460					

PWT

.000	.0002	.1015	.0971	-.1099	-.3651	-.3409	-.3369	-.2379	-.2403						
40.000	.0007	.1203	.1795	-.2329	-.4929	-.3278	-.2463	-.2373	-.2431						
70.000	-.0096	-.1099	-.0396	.0329	-.2326	-.2472	-.2437								
90.000	-.0341	-.0343	-.0039	.0579	-.2811	-.2483	-.3065								
109.000			.0697	-.0223	-.3336	-.3701	-.3485								
110.000							-.2946								
120.000	.0233	.0746	.1754	-.1432	-.3646	-.3693	-.4239	-.3101							
136.000			.3678	.1697	-.4839	-.4431	-.4753								
150.000	.0233	.1167	.2412	.2159	-.3141	-.4307	-.4627								
166.000	.0144	.2278	.2278	-.2343	-.4233	-.3232									
190.000	-.0021	.1096	.2315	.2199											

ALPHAO1 9) = 7.000 BETA0 (1) = -0.010

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1790	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5700
PWT	.000	1.1950	.7004	.2614	.0543	.0909	.0000	-.4030	-.0633	-.0528	-.0581	-.0477	.0043	.1819	
20.000			.4824	.1743	.0983	.3536	-.3196		.0126						
40.000			.0730	.1943	.1831	-.4207	-.0266		.0266	-.0641	-.0469	-.0066	.1348	.2940	
50.000			.7082	.4860	.3093	.1674	-.0310		.1196						
70.000			.7408	.4743	.2792	.1790	.0355		.0912	-.3376	-.0561	-.0699	-.1480		
90.000			.6888	.6881	.4842	.2323	.2321		.0252	-.3560	-.1101	-.1697	-.1926		



ARC11-716 IAI14 01-712-21263-AT11 CRG. PUBLAGE (R01036)

ALPHACI 20 = 7.000 BETA0 (2) = -3.900

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0470	.0700	.1120	.1390	.1670	.1700	.2070	.2320	.3010	.3790	.4990	.9700
PHI														
100.000														
140.000														
174.000														
100.000	1.2540	.8075	.1284	.0713	.1903	.0000	.7273							
140.000	.6880	.7200	.7010	.6820	.6820	.9420	1.0020	1.0020	1.0400					
PHI														
100.000														
140.000														
174.000														
100.000	.8441	.2404	.2271	.1190	-.4791	-.3796	-.2790							
140.000	.8075	.3033	.4046	.2096	-.0230	-.4732	-.3102							
174.000	-.0194	-.3473	-.4272	-.0200	-.1234	-.1329	-.1390							
100.000	-.0000	-.0076	-.0272	-.0033	-.1924	-.1043	-.1041							
140.000			.0108	-.1000	-.3404	-.2777	-.2111							
174.000														
100.000	-.1402	-.2047	.1020	.1396	-.3401	-.2304	-.2442							
140.000			.2390	.0093	-.3404	-.1021	-.2315							
174.000	-.0142	.0220	.2034	.1903	-.2070	-.1400	-.2937							
100.000	.0192	.0092	.2037	-.0176	-.1313	-.3316								
140.000	.0002	.0000	.2472	.4714										

ALPHACI 20 = 7.000 BETA0 (2) = .040

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0470	.0700	.1120	.1390	.1670	.1700	.2070	.2320	.3010	.3790	.4990	.9700
PHI														
100.000														
140.000														
174.000														
100.000	1.2000	.7200	.1040	.0477	.0000									
140.000			.2344	.0902	.0000	.1279								
174.000			.3000	.1427	.0396	-.0046								
100.000			.4237	.1930	.0000	-.0027								
140.000			.4279	.1930	.0271	-.0742								
174.000	.6416	.3033	.1100	-.0144	-.0900									
100.000			.3400	.1303	.0000	.0000								
140.000			.2770	.1403	.0201	.1733								
174.000														
100.000														
140.000														
174.000														
100.000	1.2000	.2040	.2200	.1474	.0001	.1904								
140.000														
174.000														
PHI														
100.000														
140.000														
174.000														
100.000														
140.000														
174.000														
100.000														
140.000														
174.000														



(R81838)

REC11-716 1A14 01+112+S12E2+AT11 CRB. FUSELAGE

ALPHA (5) = 7.930 BETA (4) = 4.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.0177	-.0086	.0303	-.1139	-.3645	-.3602	-.4207	-.3361		
135.000			.3044	.1620	-.4130	-.3386	-.4275			
150.000	.0570	.0635	.3796	.3355	-.3215	-.4072	-.4827			
165.000	.0965		.2946	-.2098	-.4342	-.3407				
180.000	.0419	.0710	.2480	.4486						

ALPHA (5) = 7.910 BETA (5) = 6.200

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	1.1230	.6125	.0661	.0069	-.0636	.0000		-.2241		-.0926	-.1097	-.1290	-.1262	-.0266	.0436
40.000			.0160	-.0410	-.0307	-.1235		-.2662		-.1108					
60.000			.0097	-.0639	-.2358			-.2765		-.1128	-.1793	-.1905	-.1497	.0125	.0975
80.000			.0432	-.1004	-.1175	-.2760		-.2717		-.0693					
100.000			.0777	-.1140	-.1539	-.2160		-.3295		-.0980	-.5335	-.4266	-.3297	-.0046	
120.000		-.0132	.0396	-.1203	-.2080	-.1857		-.2666		-.3323	-.5900	-.4840	-.2702	.0231	
140.000			.1165	-.0616	-.1590	-.0297		-.0700		-.5362	-.7967	-.7767	-.2212	.0499	
160.000										-.7823					
180.000			.1166	.0363	-.0673	.0469		.0075		-.7995	-.6762	-.6269	-.2746	.0260	
191.000								.3636							
196.000									.1455						
182.000										-.7606	-.6162	-.6274	-.3293	-.0339	
165.000								.5421							
169.000															
174.000						.6469			.5114						
190.000	1.1230	.3276	.1689	.0623	.0116	.1160				-.8473	-.6042	-.6066	-.4183	-.0293	

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
40.000	.1259	.1250	.1116	-.1464	-.3348	-.3196	-.3110		-.2367	-.2362
60.000	.1347	.1589	.1932	-.2651	-.4674	-.3003	-.2491		-.2190	-.2131
80.000	-.1245	-.1929	-.1062	.0313	-.2968	-.2874	-.2306			
100.000	-.0820	-.1363	-.0406	-.0358	-.3328	-.3214	-.2657			
105.000			.0354	-.1111	-.3621	-.3965	-.3324			
110.000								-.3197		
120.000	.0020	-.0091	.1479	-.1568	-.4393	-.4185	-.4671	-.3300		
135.000			.3190	.1947	-.4994	-.4662	-.5119			
150.000	.0004	.0210	.2649	.2237	-.3362	-.4834	-.5617			
169.000	-.0459		.1757		-.2713	-.4794	-.3645			
180.000	-.0391	-.0301	.1201	.2971						



ARC11-716 IA14 01+712+51225+AT11 CRB. FUSELAGE (R81839)

ALPHAO(1) = -6.100 BETA0 (2) = -4.000

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.9760
PH1	.000	1.3360	.7244	.3701	.3178	.3264	.0000	-.2017	.9713	-.0265	-.0293	-.1313	-.1715	-.1379	.0250
20.000	.4223	.2894	.3257	.4246	-.3177	-.0599	-.2241	-.2093	-.1037	-.1214	-.1324	-.0616			
40.000	.5566	.3474	.3121	.2995	-.2959	.0129	.0160								
55.000	.6638	.4463	.3580	.2869	.1366										
70.000	.7240	.5001	.3797	.3243	.1366										
90.000	.9344	.7457	.5396	.4066	.1728										
120.000	.7782	.5968	.5166	.5265	.4055										
140.000															
150.000	.7479	.6343	.5666	.5997											
151.000					.6536										
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.3360	.8441	.6647	.6080	.5662	.9965	1.0260	.9197							
X/LB	.6630	.7930	.7610	.6230	.8620	.9230	.9630	1.0020	1.0210	1.0460					

PH1	.000	.1082	.1386	.1941	.1963	-.3922	-.3517	-.8240	-.2702	-.2779					
40.000	.1104	.1535	.3623	.1074	-.5539	-.4127	-.3192	-.2462	-.2759						
70.000	.0845	.1087	.2317	.3067	.1254	.1650	.1416								
90.000	.0947	.1637	.2590	.2979	.0945	.1678	.1319								
105.000			.3559	.2572	.0553	.1079	.1017	-.1373							
110.000								-.0416							
120.000	.0915	.2782	.4026	.2577	.0463	.1127	.0676								
135.000	.7236	.4637	.1541	.1761	.0491										
150.000	.0646	.3576	.9647	.5262	.2147	.2167	-.0636								
165.000	.0260	.5332		.3036	.2262	-.1644									
180.000	.5141	.3576	.5540	.6508											

ALPHAO(1) = -6.000 BETA0 (3) = .050

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.9760
PH1	.000	1.3360	.7292	.3659	.3278	.3166	.0000	-.0626	.9760	-.0090	-.0940	-.1669	-.2262	-.0738	.0309
20.000	.3993	.2940	.3165	.3433	-.2937	.0166									
40.000	.4785	.3047	.2797	.2950	-.2136										
55.000	.5480	.3499	.2717	.2229	-.0566										
70.000	.9953	.3760	.2727	.2390	.0603										
90.000	.7888	.6178	.4145	.2912	.2993										



ARC11-716 1A14 CR+712-S12E2-AT11 CRG. FUSELAGE (R61839)

ALPHAX(1) = -0.100 BETA(4) = 4.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
165.000								.8421							
166.000															
174.000							.9996								
180.000	1.3430	.9100	.7032	.6151	.5673	.6013		.8628							
W/LB	.6930	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0646	.0678	.0937	-.0599	-.3641	-.3617	-.3033								
40.000	.0149	.0353	.1371	-.3699	-.4821	-.3816	-.2772								
70.000	.0961	.1934	.1932	.2686	.0061	.0166	-.0042								
90.000	.0686	.2298	.2235	.2105	.0025	.0035	-.0330								
105.000		.2686	.1262	-.0396	-.0626	-.0701									
110.000															
120.000	.0823	.2774	.1171	-.0743	-.1999	-.0719	-.1525								
136.000			.6296	.3441	-.2477	-.2204	-.1716								
150.000	-.0180	.3672	.6155	.6426	-.0330	-.0935	-.2706								
165.000	-.0133		.5770	.0676	-.0904	-.3136									
180.000	-.0036	.3572	.5547	.6676											

ALPHAX(1) = -0.130 BETA(5) = 8.160

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2680	.6091	.2303	.2616	.2629	.0000									
20.000		.2195	.2017	.2365	.1157										
40.000		.2268	.1816	.1937	.0769										
55.000		.2731	.1604	.1449	.1113										
70.000		.3820	.1490	.0820	.1335										
90.000		.3202	.3437	.1994	.0739	.1169									
120.000		.4205	.2162	.1627	.2232										
140.000		.9132	.4606	.3783	.4022										
150.000															
151.000															
156.000															
162.000															
169.000															
174.000	1.2680	.6426	.6377	.5760	.5244	.5616									
180.000	.6930	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
169.000															
174.000															
180.000															



MCC11-716 1A14 CR+T12+SIEMENS+AT11 CRG. PUSBLAGE (081029)

ALPHAO(1) = -0.138 BETA0 (5) = 0.100

SECTION (1) ORBITER PUSBLAGE	DEPENDENT VARIABLE CP	1.0230	0.9230	1.0020	1.0210	1.0480
PHI						
0.000	0.0230	0.0474	-0.1346	-0.4430	-0.3646	-0.3906
40.000	-0.0277	0.1112	-0.3346	-0.3053	-0.4245	-0.3100
70.000	0.0975	1.0900	0.1213	0.2465	-0.0901	-0.0977
90.000	0.0546	1.0000	0.1295	1.0011	-0.1120	-0.0932
105.000		0.2201	1.0061	-0.1933	-0.1436	-0.1921
110.000						-0.2561
120.000	0.0766	0.2914	-0.0314	-0.2645	-0.3475	-0.2136
135.000		0.6023	1.574	-0.4316	-0.4721	-0.3030
150.000	-0.0082	0.2766	0.5646	0.6031	-0.1229	-0.2443
165.000	-0.0277	0.2603		-0.0016	-0.1929	-0.3360
180.000	-0.0304	0.2566	0.6116			

ALPHAO(2) = -4.100 BETA0 (1) = -0.030

SECTION (1) ORBITER PUSBLAGE	DEPENDENT VARIABLE CP	0.0470	0.0700	0.1120	0.1950	0.1670	0.1760	0.2030	0.2920	0.3010	0.3790	0.4990	0.3760
PHI													
0.000	1.2000	0.7272	0.3403	0.2335	0.2695	0.0000	-0.1807	-0.0139	0.0073	-0.1209	-0.1707	-0.1213	0.0924
20.000		0.4304	0.2699	0.2703	0.4760		-0.1226	0.1392					
40.000		0.6366	0.3592	0.2953	0.5447		-0.1766	-0.1746	-0.1923	0.0008	-0.0438	-0.0755	0.2044
55.000		0.7759	0.5159	0.4075	0.5361		0.1136	0.0453					
70.000		0.6228	0.5741	0.4496	0.3900	0.2188	0.2188	0.1193	-0.3213	-0.0627	-0.1148	-0.0725	
90.000	1.0350	0.6166	0.5607	0.4496	0.4142	0.2917	0.2917	0.0631	-0.2950	-0.1622	-0.1391	-0.0966	
100.000		0.7779	0.5796	0.5072	0.5179	0.4800	0.4800	0.1166	-0.1854	-0.4600	-0.1697	-0.1358	
140.000								0.0863					
150.070		0.6465	0.5291	0.4743	0.5333		0.0794	0.0393	-0.5397	-0.4046	-0.1963	-0.1848	
151.000							0.6732						
156.000							0.6420						
162.000								-0.4086	-0.4867	-0.3535	-0.2125	-0.2336	
165.000													
168.000													
174.000													
190.000	1.2000	0.6211	0.5519	0.4822	0.4377	0.4900	0.6607						
1.0230		0.7500	0.7610	0.6250	0.6620	0.9230	0.7025	-0.9544	-0.4195	-0.3530	-0.2446	-0.2906	

SECTION (1) ORBITER PUSBLAGE	DEPENDENT VARIABLE CP	0.9630	1.0020	1.0210	1.0480
PHI					
0.000	1.0900	0.8227	0.2706	-0.5430	-0.4397
40.000	0.2129	0.3247	0.5637	0.3153	-0.5931
70.000	0.7925	-0.1316	-0.1553	0.2384	0.7824
90.000	0.6095	-0.8043	0.0749	0.2599	0.0263
105.000		0.2532	1.1793	-0.0122	0.0654
110.000					

MRC11-716 1A14 01-112-S12M5-AT11 CR. FUSelage (M01059)

ALPHAO (2) = -4.100 BETAO (1) = -0.030

SECTION (1) CRITTER FUSelage DEPENDENT VARIABLE CP

W/LB	.6630	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460
PWT										
120.000	-.0507	-.0754	.3211	.3210	-.0252	.0934	.1299	-.0122		
135.000			.5463	.3213	.1472	.1829	.0712			
150.000	-.0440	.0810	.4028	.3208	.2356	.2411	-.0462			
165.000	-.0460	.3968	.3968	.3587	.3587	.2379	-.1461			
180.000	-.0158	.2087	.4156	.4695						

ALPHAO (2) = -4.110 BETAO (2) = -4.010

SECTION (1) CRITTER FUSelage DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1790	.2050	.2320	.3010	.3790	.4990	.5760
PWT															
.000	1.3410	.7499	.3360	.2286	.2715	.0000	-.2420	-.3456	.0503	-.0209	-.0360	-.1463	-.1484	-.0919	.0989
20.000			.4015	.2468	.2717	.4115	-.3456	-.2867	-.2334	-.2126	-.0817	-.1165	-.1203	-.1214	
40.000			.5483	.2935	.2616	.2605	.0003	.0375							
55.000			.6408	.3964	.3012	.2629	.0003	.0375							
70.000			.6878	.4403	.3175	.2661	.1227	.0216	-.0316	-.3666	-.1962	-.1616	-.1068		
90.000		.9680	.6761	.4622	.3328	.3317	.1627	.0216	-.0627	-.3660	-.2896	-.1616	-.1009		
120.000		.8820	.6820	.4968	.4197	.4385	.3909	.0216	-.0095	-.2879	-.5301	-.1826	-.1290		
140.000		.8526	.5168	.4572	.5166		.3909	.0216	-.3166	-.5452	-.3637	-.2069	-.1336		
150.000							.5370								
151.000							.7196								
156.000							.5953								
162.000							.6793								
166.000							.7875								
169.000							.8793								
174.000							.9620								
180.000	1.3410	.6387	.5706	.4838	.4577	.5141	.9620								
W/LB	.6630	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					

PWT

.000	1.918	.1912	.2236	.1974	-.3247	-.3210	-.2970								
40.000	1.605	.2435	.4424	.2046	-.5396	-.4021	-.2993								
78.000	.0248	-.0801	.0849	.0935	.1173	.1319									
90.000	.0225	-.0225	.1815	.2387	.0200	.1131	.1289								
105.000			.2913	.1786	-.0132	.0344	.0920								
110.000			.3384	.2343	-.0449	.0638	.0201								
123.000	.0684	.0879	.3384	.2343	-.0449	.0638	.0201								
135.000			.2944	.2944	-.0040	.1332	.0116								
150.000	.0368	.2393	.4714	.4306	.1028	.1391	-.1023								
169.000	.0252	.4587	.4587	.2206	.1999	-.2065									
180.000	.6349	.2087	.4884	.4884	.5146										



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 01-712-S12MS-AT11 058. PURCHASE (081839)

ALPHA(2) = -4.110 BETA(3) = .040

SECTION (1) 310BITTER PURCHASE DEPENDENT VARIABLE CP

K/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2920	.3010	.3790	.4990	.5760
PHI	.000	1.3680	.7893	.3125	.2516	.2539	.0000	-.0517	-.0216	-.1015	-.2120	-.2215	-.0792	.0530	.0530
20.000				3.531	2.274	2.339	3.307	-.3391	.0110						
40.000				4.442	2.477	1.917	2.236	-.3729	-.0510	-.0994	-.1625	-.1626	-.0712	.0699	
55.000				5.146	2.931	1.940	1.963	-.0700	-.2260						
70.000				5.553	3.192	1.930	2.071	.0461	-.1440	-.5306	-.2643	-.2365	-.1332		
90.000		.7168		5.828	3.545	2.095	2.248	.0794	-.1641	-.4772	-.4146	-.2220	-.1232		
120.000				6.052	4.154	3.278	3.766	.2916	-.1415	-.3932	-.6322	-.2213	-.1377		
140.000									-.2379						
150.000				6.072	5.010	4.216	4.603		-.4222	-.5137	-.3694	-.2699	-.1322		
151.000								.4463							
154.000								.7440							
162.000									.5286						
165.000									-.4148	-.4568	-.2782	-.2624	-.1309		
169.000															
174.000								.8537							
180.000	1.3680	.8480	.5977	.3116	.4885	.5285	.9630	.8365	-.4878	-.3234	-.2488	-.2754	-.1223		
K/LB	.6530	.7300	.7810	.8230	.8920	.9730	.9630	1.0020	1.0210	1.0480					

PHI

.000	1.488	1.613	1.783	1.013	-.2959	-.3165	-.2782		-.2376	-.2435					
40.000				-.1004	-.5132	-.3838	-.2787		-.2025	-.2312					
70.000				0.404	0.232	0.151	0.0335	-.0177							
90.000				1.606	1.925	0.169	0.040	-.0404							
105.000				2.506	1.227	0.980	0.0570	0.0598							
110.000								-.2571							
120.000				2.246	1.224	1.288	0.0379	0.1061							
135.000				5.916	4.051	1.354	0.0217	0.0793							
150.000				3.242	5.981	9.204	0.0070	0.0222	-.1924						
165.000				1.198	5.083	1.162	0.0222	0.2737							
169.000				1.441	3.334	3.008	9.645								

ALPHA(2) = -4.110 BETA(4) = 4.170

SECTION (1) 310BITTER PURCHASE DEPENDENT VARIABLE CP

K/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2920	.3010	.3790	.4990	.5760
PHI	.000	1.3310	.6832	.2998	.2174	.2164	.0000	-.0409	-.0231	-.1215	-.2572	-.2358	-.1198	.0108	.0108
20.000				2.724	1.964	1.985	2.113	-.1428	-.0761						
40.000				3.154	1.901	1.423	1.301	-.2337	-.0590	-.0999	-.2314	-.2499	-.0634	.0333	
55.000				3.624	1.901	1.068	1.308	-.1906	-.1969						
70.000				4.054	1.961	0.862	1.564	-.0418	-.2140	-.5580	-.3390	-.2474	-.0850		
90.000				5.060	4.272	2.236	0.964	0.1566	-.2320	-.5520	-.4740	-.2167	-.0840		

(081839)

ARC11-716 1A16 0417E+612E+3+AT11 CRB. FUSELAGE

ALPHACD E1 = -4.110 BETA0 (4) = 4.170

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2050	.3010	.3790	.4990	.5760
PHI															
120.000			.4649	.5000	.5034	.2869		.1655		-.2691	-.4717	-.6645	-.2612	-.1186	
140.000										-.4497					
150.000			.5347	.4348	.5500	.4137				-.4762	-.5261	-.5015	-.3216	-.1347	
191.000								.6346	.3254						
196.000									.4355						
198.000										-.4151	-.5461	-.2685	-.2611	-.1406	
199.000								.7985							
174.000						.9211									
160.000	1.3810	.0100	.7917	.8084	.4506	.5086		.6107		-.5456	-.4267	-.2685	-.2479	-.1452	

W/LB .6880 .7900 .7910 .8230 .8680 .9230 .9400 1.0020 1.0210 1.0480

PHI

.000	.0943	.1184	.1169	-.0514	-.3709	-.3563	-.2763		-.2407	-.2516					
40.000	.0486	.0831	.1446	-.3500	-.4530	-.3453	-.2465		-.2153	-.2205					
70.000	.0373	.0679	.1297	-.2068	-.0170	-.0379	-.0663								
90.000	.0558	.1144	.1691	-.1669	-.0354	-.0467	-.1012								
105.000			.2229	.0792	-.0834	-.1076	-.1168								
110.000								-.2732							
120.000	.0688	.2135	.0967	-.0458	-.2035	-.1010	-.1671	-.2392							
136.000			.9050	.3456	-.2640	-.1997	-.2027								
150.000	.0668	.2683	.3036	-.0784	-.1594	-.2599									
169.000	.0243		.4936		.0422	-.1410	-.3351								
190.000	.0844	.2666	.4775	.5563											

ALPHACD E1 = -4.110 BETA0 (5) = 6.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2050	.3010	.3790	.4990	.5760
PHI															
.000	1.2780	.6826	.1827	.1644	.1690	.0000		-.1676		-.0436	-.2245	-.2677	-.5362	-.1505	-.0743
20.000			.1646	.1260	.1737	.1025		-.0590		-.1062					
40.000			.1756	.1019	.1276	.0339		-.1146		-.0956	-.1654	-.2965	-.5362	-.1320	-.0322
55.000			.2271	.0785	.0606	.0687		-.2239		-.1430					
70.000			.2727	.0750	.0566	.1470		-.1260		-.2632	-.5705	-.4269	-.2922	-.0663	
90.000	.2605	.3051	.1026	.0248	.1254		-.0972		-.3452	-.6219	-.5323	-.2760	-.0863		
120.000			.3646	.1976	.0929	.1665	.0530		-.3770	-.5392	-.7269	-.4299	-.1550		
140.000								-.5576							
150.000			.4393	.3750	.3363			-.5166	-.5970	-.3502	-.3669	-.3669	-.2794		
191.000															
194.000						.5356									
198.000															



ARC11-716 1A14 01-712-31265-AT11 CRG. FUSBLAGE

(R81836)

ALPHAX 2) = -4.130 BETA0 (5) = 0.110

SECTION (1) CRITTER FUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1790	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
169.000								.7531							
168.000															
174.000						.6336									
160.000	1.2760	.7437	.5543	.4676	.4211	.4793									
W/LB	.0000	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					

PHI

.000	.0171	.0621	.0943	-.1379	-.4136	-.3546	-.3228								
40.000	.0116	.0821	.1461	-.2917	-.4660	-.3672	-.2719								
70.000	.0629	.0942	.2063	-.0947	-.1236	-.1378									
90.000	.0904	.1411	.1140	.1371	-.1193	-.1263	-.1662								
100.000		.1662	.0953	-.1579	-.1760	-.1900									
110.000															
120.000	.0076	.2126	.0213	-.2163	-.3236	-.2199	-.2979								
130.000															
135.000	.0348	.2332	.4316	.6194	-.1462	-.2704	-.4169								
169.000	.0004		.4993		-.0327	-.2237	-.3321								
190.000	-.0309	.2193	.4294	.5334											

ALPHAX 3) = -.330 BETA0 (1) = -4.020

SECTION (1) CRITTER FUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1790	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
174.000															
169.000	1.3480	.7740	.3011	.1345	.2090	.0000									
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
174.000															
169.000	1.3408	.7416	.4599	.3620	.3342	.4231									
W/LB	.0000	.7260	.7616	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					

ARC11-719 IAI14 CRITERIUMS-AT11 CRG. PUSBLAGE

(001030)

ALPHAX 3) = -.300 BETAO (1) = -4.000

SECTION (1) CRITER PUSBLAGE DEPENDENT VARIABLE CP

1/LB	.0000	.7500	.7910	.8020	.8000	.9000	.9000	1.0000	1.0210	1.0400
PWT										
.000	.2133	.2420	.2601	.1996	-.3923	-.3201	-.2831		-.2217	-.2342
40.000	-.2291	.3354	.9144	.2914	-.5403	-.4335	-.3361		-.2284	-.2432
70.000	-.0062	-.1231	-.1759	.2112	.0133	-.0056	.0303			
90.000	.0216	-.0839	.0308	.1942	-.0403	-.0109	-.0071			
105.000		.1926	.0961	-.0703	-.0791	-.0398				
110.000										-.1827
125.000	.6987	-.0184	.3079	.2221	-.1179	-.0104	-.0704			-.1126
130.000		.3301	.3132	-.0900	.0873	-.0326				
130.000	.0692	.1426	.3976	.3309	.0196	.1073	-.1341			
140.000	.0682		.3640							
160.000	-.0789	.2100	.3796	.4233	.1396	.1000	-.2319			

ALPHAX 3) = -.300 BETAO (2) = 0.400

SECTION (1) CRITER PUSBLAGE DEPENDENT VARIABLE CP

1/LB	.0000	.0000	.0200	.0250	.0470	.0700	.1120	.1300	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5790
PWT																
.000	1.3968	.7910	.2763	.1982	.1703	.0000			-.1445		-.0298	-.0632	-.1002	-.1290	-.0455	.0440
20.000		.3242	.1399	.1394	.3222				-.3780		.0142					
40.000		.4293	.1973	.1273	.1936				-.4033		-.0769	-.0981	-.1457	-.1913	-.0991	.1210
50.000		.3027	.2792	.1307	.1439				-.1037		-.2349					
70.000		.3311	.2794	.1327	.1373				.0199		-.1393	-.3436	-.2377	-.2139	-.1479	
100.000	.6980	.4970	.2901	.1240	.1933				.0634		-.1637	-.4939	-.3361	-.2313	-.1355	
140.000		.3396	.3298	.2296	.3227				.2816		-.1336	-.4183	-.0419	-.2100	-.1424	
150.000		.3132	.3908	.2881	.3972						-.2469	-.4640	-.8122	-.4413	-.2379	-.1047
150.000									.7292		.4237					
162.000											.6979					
169.000																
174.000																
180.000	1.3968	.7910	.4937	.4009	.3497	.4399	.6006		.6221		-.4685	-.3167	-.3991	-.3313	-.1059	

SECTION (1) CRITER PUSBLAGE DEPENDENT VARIABLE CP

1/LB	.0000	.7500	.7910	.8020	.8000	.9000	.9000	1.0000	1.0210	1.0400
PWT										
.000	.1775	.0200	.1999	.0819	-.3047	-.2858	-.2342		-.2106	-.2227
40.000	-.1796	.2298	.3333	.0019	-.4836	-.3717	-.2711		-.1913	-.2184
70.000	.0293	-.0896	-.0318	.1813	-.0345	-.0063	-.0940			
90.000	.0913	-.0006	.0096	.1348	-.0482	-.0483	-.0948			
105.000		.1703	.0990	-.1137	-.1300	-.1144				
110.000										-.2384

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ALPHACK 31 = -.300 BETA0 (2) = .040

SECTION (1) CRIBITER PURCHASE DEPENDANT VARIABLE CP

W/L8	.0000	.7000	.7010	.0020	.0000	.0020	.0000	.0020	.0000	1.0000	1.0010	1.0000
PW1												
120.000	1.0000	1.0440	0.9410	1.0000	-0.1727	-0.1021	-0.1476	-0.1970				
130.000												
140.000	1.0407	0.9006	0.8012	0.9141	-0.0454	-0.0800	-0.2241					
150.000	1.0017											
160.000	1.0011	0.8006	0.6002	0.7170								

ALPHACK 31 = -.240 BETA0 (2) = 4.070

SECTION (1) CRIBITER PURCHASE DEPENDANT VARIABLE CP

W/L8	.0000	.0000	.0020	.0020	.0470	.0700	.1120	.1390	.1670	.1700	.2020	.2010	.3790	.4000	.3700
PW1															
20.000	1.3000	0.7000	0.2000	0.1000	0.1544	0.0000			-0.1953		-0.0825	-0.0531	-0.1044	-0.0006	0.0001
30.000									-0.2233		-0.0079				
40.000	0.3000	0.1400	0.0000	0.1400	0.0000	0.0776			-0.4304		-0.1094	-0.1009	-0.2072	-0.2305	-0.0303
50.000	0.4702	0.1304	0.0000	0.0000	0.0000	0.0303			-0.1902		-0.2037				
60.000	0.3000	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0025		-0.2342	-0.9931	-0.3092	-0.2200	-0.0907
70.000	0.4702	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0379		-0.2394	-0.5737	-0.4490	-0.2193	-0.0797
80.000	0.4702	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0379		-0.2394	-0.5737	-0.4490	-0.2193	-0.0797
90.000	0.4702	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0379		-0.2394	-0.5737	-0.4490	-0.2193	-0.0797
100.000	0.4702	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0379		-0.2394	-0.5737	-0.4490	-0.2193	-0.0797
110.000	0.4702	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0379		-0.2394	-0.5737	-0.4490	-0.2193	-0.0797
120.000	0.4702	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0379		-0.2394	-0.5737	-0.4490	-0.2193	-0.0797
130.000	0.4702	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0379		-0.2394	-0.5737	-0.4490	-0.2193	-0.0797
140.000	0.4702	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0379		-0.2394	-0.5737	-0.4490	-0.2193	-0.0797
150.000	0.4702	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0379		-0.2394	-0.5737	-0.4490	-0.2193	-0.0797
160.000	0.4702	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0379		-0.2394	-0.5737	-0.4490	-0.2193	-0.0797
170.000	0.4702	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0379		-0.2394	-0.5737	-0.4490	-0.2193	-0.0797
180.000	0.4702	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0379		-0.2394	-0.5737	-0.4490	-0.2193	-0.0797
190.000	0.4702	0.1000	0.0000	0.0000	0.0000	0.0000			-0.0379		-0.2394	-0.5737	-0.4490	-0.2193	-0.0797

W/L8 .0000 .7000 .7010 .0020 .0000 .0020 .0000 .0020 .0000 .0020 .0000 .0020 .0000 .0020 .0000 .0020

W/L8	.0000	.7000	.7010	.0020	.0000	.0020	.0000	.0020	.0000	1.0000	1.0010	1.0000
PW1												
20.000	1.0400	1.2000	1.2010	0.0000	-0.2010	-0.3193	-0.2015					
30.000	0.0000	0.1710	0.2000	-0.0302	-0.3000	-0.2245						
40.000	0.0000	-0.1001	0.0000	0.1340	-0.0713	-0.0900						
50.000	0.0000	-0.0004	0.0000	0.0000	-0.1000	-0.1250						
60.000	0.0000	0.0000	0.0000	0.0000	-0.1400	-0.1721						
70.000	0.0000	0.0000	0.0000	0.0000	-0.1721	-0.1902						
80.000	0.0000	0.0000	0.0000	0.0000	-0.2000	-0.2194						
90.000	0.0000	0.0000	0.0000	0.0000	-0.2391	-0.2370						
100.000	0.0000	0.0000	0.0000	0.0000	-0.2803	-0.2803						
110.000	0.0000	0.0000	0.0000	0.0000	-0.3200	-0.3200						
120.000	0.0000	0.0000	0.0000	0.0000	-0.3597	-0.3597						
130.000	0.0000	0.0000	0.0000	0.0000	-0.3994	-0.3994						
140.000	0.0000	0.0000	0.0000	0.0000	-0.4391	-0.4391						
150.000	0.0000	0.0000	0.0000	0.0000	-0.4788	-0.4788						
160.000	0.0000	0.0000	0.0000	0.0000	-0.5185	-0.5185						
170.000	0.0000	0.0000	0.0000	0.0000	-0.5582	-0.5582						
180.000	0.0000	0.0000	0.0000	0.0000	-0.5979	-0.5979						
190.000	0.0000	0.0000	0.0000	0.0000	-0.6376	-0.6376						

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MFC11-716 IAS4 01-718-918E3-A711 CR8. PURLAGE (8810391)

ALPHAO1 24 = -.348 BETA0 (1) = 9.140

SECTION (1) 1/2BITER PURLAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2380	.3010	.3790	.4990	.3790
PHI															
80.000	1.0000	.0000	.1915	.0010	.0054	.0000		-.2225		-.0597	-.2221	-.2341	-.1901	-.18754	-.0410
80.000			.1316	.0000	.0000	.0770		-.0037		-.0021					
80.000			.1344	.0000	.0372	-.0222		-.1022		-.1324	-.1747	-.3203	-.2902	-.0632	.0113
90.000			.1846	.0100	.0176	-.0237		-.2729		-.1389					
90.000			.2333	.0100	.0168	.0006		-.1649		-.2424	-.3500	-.4340	-.3004	-.0500	
90.000		.2340	.2395	.0446	-.0319	.0008		-.1847		-.3468	-.6397	-.4997	-.2576	-.0770	
100.000			.3007	.1203	.0161	.1231		-.0471		-.3920	-.3879	-.7067	-.3291	-.0771	
100.000			.3549	.2909	.1627	.2006				-.5173	-.6531	-.3957	-.4093	-.1694	
114.000								.1790							
120.000								.3161							
142.000								.3849							
168.000								.7037							
169.000								.8003							
174.000								.7007							
180.000															
180.000															
M/LB	.0000	.7000	.7010	.8230	.6680	.9230	.9430	1.0000	1.0210	1.0400					

ALPHAO1 4) = 4.000 BETA0 (1) = -0.000

SECTION (1) 1/2BITER PURLAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2380	.3010	.3790	.4990	.3790
PHI															
80.000	1.0000	.0001	.3312	1.401	1.305	.0000		-.3605		-.0693	-.0184	-.1091	-.8773	.0330	.1790
80.000			.4963	.2179	.1233	.4330		-.3944		-.3643					
80.000			.6041	.3900	.2200	.2790		-.3111		-.1790	.0290	-.0056	-.0132	-.0161	.2900
90.000			.7923	.5071	.3439	.2499		-.0609		-.1093					
90.000			.7928	.5173	.3362	.2647		-.1223		-.0078	-.2703	-.0376	-.0433	-.1194	
90.000		.9000	.7501	.4907	.3184	.2834		-.1830		.0094	-.3229	-.0693	-.1026	-.1200	



ARC11-716 IA14 01-Y12-S12M3-AT11 CRB. FUSELAGE (R81839)

ALPHAX (4) = 4.010 BETA0 (2) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
165.000								.8165							
169.000						.9194									
174.000								.7143							
180.000	1.3320	.6555	.3402	.2057	.2259	.3280									
X/LB	.6530	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.2451	.2677	.2747	.1971	-.3648	-.2997	-.2809								
40.000	.2900	.3779	.5431	.2910	-.3470	-.4306	-.3077								
70.000	-.0275	-.1956	-.2641	.1347	-.0290	-.0834	-.0923								
90.000	.0506	-.1375	-.0905	.0960	-.0962	-.0967	-.1031								
105.000			.1404	.0022	-.1113	-.1805	-.1614								
110.000								-.2959							
120.000	-.0027	-.0870	.2493	.2247	-.2123	-.1061	-.1454								
135.000			.4421	.2232	-.1617	-.0036	-.0936								
150.000	.0686	.1077	.3217	.2549	-.0498	.0067	-.1908								
165.000	.0806		.3235	.0991	-.0006	-.2622									
180.000	.0905	.1640	.3165	.3699											

ALPHAX (4) = 4.000 BETA0 (3) = .070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3530	.7657	.2309	.1541	.1498	.0000									
20.000			.3094	.1401	.1530	.3034									
40.000			.4313	.1903	.1471	.1422									
55.000			.4912	.2502	.1445	.0676									
70.000			.3066	.2576	.1242	.0697									
90.000	.6433		.4944	.2521	.0654	.1161									
120.000			.4762	.2630	.1432	.2436									
140.000			.4238	.2942	.1606	.3113									
150.000								.4062							
151.000									.7105						
158.000															
165.000															
169.000															
174.000	1.2580	.6543	.3844	.3003	.2266	.3396	.6631								
180.000	.6630	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

ORIGINAL QUALITY OF POOR QUALITY



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ARC11-716 1A14 01+712+S12K25+AT11 CRG. FUSELAGE

(R81839)

ALPHAX (4) = 4.000 BETA0 (3) = .050

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP									
1/LS	.6930	.7900	.7610	.6230	.6820	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.000	.2758	.2396	.2127	.0623	-.3176	-.2740	-.2410		-.1923	-.2005
40.000	.2242	.2747	.3478	.0370	-.4964	-.3766	-.2697		-.1630	-.2067
70.000	.0198	-.1729	-.2004	.1262	-.0696	-.1456	-.1417			
90.000	.0632	-.1141	-.0215	.0406	-.1234	-.1375	-.1631			
105.000			.1313	-.0277	-.1629	-.2063	-.2091			
110.000									-.2776	
120.000	.0944	.0406	.2001	.0946	-.2745	-.1373	-.2106		-.2640	
135.000			.4471	.2623	-.2237	-.1379	-.1915			
150.000	.1462	.1782	.3671	.3275	-.1149	-.1462	-.2793			
165.000	.1495		.3344		.0077	-.1432	-.2651			
180.000	.1551	.1967	.3321	.4426						

ALPHAX (4) = 4.000 BETA0 (4) = 4.100

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP									
1/LS	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030
PHI										
.000	1.3280	.7293	.1928	.1533	.1243	.0000		-.1946	-.0269	-.0162
20.000		.2197	.1314	.1124	.1637			-.2079	-.0601	-.0322
40.000		.2922	.1336	.0601	.0460			-.4997	-.1132	-.0679
55.000		.3395	.1366	.0376	-.0317			-.2310	-.3329	-.1065
70.000		.3639	.1366	.0374	-.0290			.1166	-.2495	-.5441
90.000	.4378	.3196	.1358	.0028	-.0169			-.0798	-.2584	-.3706
120.000		.3840	.1693	.0635	.1345			.1759	-.2753	-.5458
140.000									-.4999	-.4767
150.000		.3761	.2741	.1410	.2432				-.5564	-.6956
151.000								.2967		-.4767
156.000								.6157		-.4284
162.000									-.5155	-.6626
165.000										-.4284
169.000								.7536		-.4376
174.000								.7486		-.5645
180.000	1.3090	.6226	.5972	.3061	.2247	.3062			-.6445	-.5645
1/LS	.6930	.7300	.7610	.6230	.6820	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.000	.1869	.1665	.1703	-.0335	-.3570	-.2667	-.2334		-.1903	-.1849
40.000	.1433	.1666	.1690	-.2426	-.4291	-.2975	-.2055		-.1676	-.1624
70.000	-.0480	-.1767	-.1631	.0632	-.1035	-.1626	-.1659			
90.000	.0081	-.1107	-.0273	.0073	-.1470	-.1510	-.1945			
105.000			.0775	-.0617	-.1967	-.2141	-.2336			
110.000										-.2762

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 1A14 06+112+512N25+AT11 ORG. FUSELAGE (RE1839)

ALPHAX (4) = 4.000 BETA0 (4) = 4.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.0595	.0588	.1940	-.0091	-.3185	-.2113	-.2532	-.2624		
135.000			.4099	.2535	-.2654	-.2645	-.2769			
150.000	.0899	.1748	.3561	.3654	-.1548	-.2394	-.3748			
165.000	.0909		.3199		-.0482	-.2329	-.3175			
180.000	.0874	.1725	.3149	.3888						

ALPHAX (4) = 3.980 BETA0 (5) = 0.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
.000	1.2560	.6660	.1355	.1077	.0373	.0000		-.3606	.0307	-.0872	-.0842	-.0668	-.1221	-.0010	
20.000			.1065	.0655	.0502	.0456		-.2860	-.0980						
40.000			.1140	.0469	.0292	-.0617		-.2951	-.1683	-.1904	-.2330	-.1830	-.0413	.0534	
55.000			.1980	.0146	-.0067	-.1052		-.5146	-.1738						
70.000			.2035	.0013	-.0356	-.0829		-.1864	-.3206	-.5445	-.4026	-.3084	-.0295		
90.000	.1681		.1601	.0188	-.0612	-.0789		-.1283	-.3476	-.6346	-.4720	-.2713	.0038		
120.000			.2985	.0820	-.0146	.0827		.0573	-.3813	-.6151	-.7980	-.2922	-.0480		
140.000									-.5807						
150.000			.2794	.2002	.0964	.1642			-.6035	-.6873	-.4730	-.4675	-.1051		
191.000								.4972							
156.000									.2934						
162.000										-.3742	-.6314	-.4668	-.3972	-.1377	
165.000															
169.000															
174.000						.7835		.6098							
180.000	1.2560	.9274	.3423	.2962	.1872	.2983		.6546							
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1032	.1248	.1333	-.1624	-.3124	-.2932	-.2961		-.2374	-.2175
40.000	.0978	.1365	.2018	-.2247	-.4471	-.2776	-.2279		-.2013	-.2025
70.000	-.0413	-.1379	-.0831	.0968	-.1700	-.2390	-.2422			
90.000	.0060	-.0923	-.0261	.0821	-.1908	-.2219	-.2756			
105.000			.0615	.0104	-.2543	-.3122	-.3318			
110.000										
120.000	.0472	.0283	.2135	-.0577	-.2964	-.2941	-.3505			
135.000			.3702	.2099	-.3923	-.3779	-.3991			
150.000	.0591	.1098	.2347	.2213	-.2109	-.3478	-.4535			
165.000	.0538		.2202	-.1929	-.3335	-.3136				
180.000	.0395	.1039	.2172	.2736						



ARC11-716 1A14 01-712-S12M25-AT11 CRB. FUSELAGE (RB1839)

ALPHA(5) = 7.920 BETA(1) = -6.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.2420	.6481	.3651	.1440	.1106	.0000		-.9910		-.1712	-.0157	-.0340	-.0236	0.0821	.1871
20.000			.5117	.2535	.1106	.4611		-.3903		-.4395					
40.000			.7562	.4172	.2455	.2731		-.3251		-.1567	.0475	.0055	-.0096	0.0491	.2926
55.000			.8372	.5996	.3790	.2249		-.0191		-.0703					
70.000			.8096	.5416	.3430	.2206		.0774		.0187	-.2634	-.0456	-.0099	-.1156	
90.000		.9285	.7165	.4911	.2911	.2166		.1646		.0266	-.2772	-.0643	-.0905	-.1446	
120.000			.5497	.3002	.1670	.1661		.3640		.0360	-.2767	-.4478	-.4672	-.5322	
140.000										-.0001					
150.000			.3362	.1901	.1040	.1994			.5409	-.1010	-.7010	-.6156	-.4062	-.3642	
151.000								.6120							
156.000									.5992	-.5794	-.6491	-.6056	-.3666	-.2510	
162.000						.6202		.8167							
165.000	1.2420	.5410	.2170	.1562	.1006	.1309		.6053		-.6540	-.6513	-.5320	-.3901	-.1352	
169.000															
174.000															
180.000	.6530	.7300	.7810	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

ALPHA(5) = 7.930 BETA(2) = -3.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.3100	.6327	.2965	.1147	.1622	.0000		-.3280		-.1026	-.0263	.0212	.0031	.0354	.1763
20.000			.4196	.1921	.1480	.4071		-.4250		-.1932					
40.000			.6162	.3067	.1978	.2166		-.3610		-.2434	.0462	-.0303	-.0355	.0273	.2412
55.000			.6794	.4131	.2529	.1306		-.1006		-.2087					
70.000			.6375	.4022	.2225	.1215		.0038		-.0907	-.4313	-.1134	-.1020	-.1953	
90.000		.8046	.5660	.3726	.1775	.1249		.0657		-.0694	-.4115	-.1401	-.1697	-.1962	

(R81839)

ARC11-716 1A14 01+712+312K25+AT11 ORB. FUSELAGE

ALPHAX 5) = 7.930 BETA0 (2) = -3.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
120.000			.4856	.2267	.1262	.1274		.3356		-.0903	-.3783	-.5626	-.4837	-.3696	
140.000										-.1196					
130.000			.3466	.2134	.1108	.1361				-.3654	-.7019	-.6157	-.3269	-.1167	
151.000								.4666							
126.000								.7541		.9032					
169.000										-.9553	-.6518	-.5497	-.3269	-.0456	
174.000								.7960							
160.000	1.3100	.5656	.2765	.2047	.1420	.1344	.6662	.6920		-.6692	-.6402	-.4637	-.3772	-.0427	
X/LB	.6680	.7500	.7610	.6230	.6620	.9230	.9680	1.0020	1.0210	1.0480					

PHI	.000	.2631	.2776	.2766	.1996	-.5268	-.2777	-.2592	-.1670	-.1656	-.1760	-.2031
40.000		.3014	.5690	.5315	.2861	-.5340	-.3997	-.2755				
70.000		-.0477	-.2235	-.3126	-.0766	-.0617	-.1471	-.1489				
90.000		.0317	-.1793	-.2408	.0163	-.1231	-.1401	-.1808				
103.000			.0479	-.0246	-.2075	-.2349	-.2392			-.2610		
110.000										-.2474		
120.000	-.0660	-.1545	.1646	.2090	-.2747	-.1808	-.1960					
135.000			.2367	.1569	-.2398	-.0620	-.1519					
120.000	.0444	.0631	.2166	.2423	-.0903	-.0534	-.2396					
163.000	.0690		.2312		.0363	-.0401	-.2762					
163.000	.0865	.1027	.2629	.4222								

ALPHAX 5) = 7.930 BETA0 (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
80.000	1.3280	.7536	.1713	.1626	.1369	.0000		-.1215		-.1309	-.0155	.0122	-.0028	.0716	.1646
40.000			.2327	.1573	.1364	.2430		-.4023		-.1209					
40.000			.3826	.2022	.1361	.0636		-.4627		-.1307	-.0404	-.0764	-.0560	.0633	.1921
53.000			.4672	.2633	.1663	.0126		-.1991		-.2803					
70.000			.5024	.2604	.1351	.0202		-.0935		-.1799	-.3922	-.2136	-.1632	-.2036	
90.000		.6121	.4755	.2690	.0916	.0207		-.0907		-.1615	-.4904	-.2490	-.2382	-.1626	
120.000			.4300	.2205	.1057	.0732		.2624		-.1623	-.4733	-.6599	-.3759	-.1973	
140.000										-.2579					
130.000			.3567	.2304	.1216	.1013				-.3113	-.7165	-.5767	-.2946	-.0476	
151.000								.6963							
156.000															
162.000															.4371



(R01039)

ARC11-716 1A14 01+712+S12E5+AT11 CRB. FUSELAGE

ALPHAX (5) = 7.930 BETA (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
165.000															
166.000															
174.000															
190.000	1.3260	.5704	.3003	.2287	.1547	.1210	.0244	.7912							
X/LB	.6930	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					
PHI															
165.000															
166.000															
174.000															
190.000	2.415	2.462	2.303	0.766	-2.960	-2.537	-2.171								
165.000															
166.000															
174.000															
190.000	0.176	-0.172	-0.081	-0.498	-1.608	-1.753	-2.234								
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
165.000															
166.000															
174.000															
190.000	1.3260	.5704	.3003	.2287	.1547	.1210	.0244	.7912							
X/LB	.6930	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					
PHI															
165.000															
166.000															
174.000															
190.000	2.415	2.462	2.303	0.766	-2.960	-2.537	-2.171								
165.000															
166.000															
174.000															
190.000	0.176	-0.172	-0.081	-0.498	-1.608	-1.753	-2.234								
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHAX (5) = 7.930 BETA (4) = 4.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
156.000															
162.000															
169.000															
174.000															
180.000															

ALPHAX (5) = 7.930 BETA (4) = 4.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
156.000															
162.000															
169.000															
174.000															
180.000															

.2838

.6037

.3620

.7332

.7173

.6279

.9430

1.0020

1.0210

1.0460

(R81839)

MFC11-716 1A14 01-712-312E5-A111 ORG. FUSELAGE

ALPHAX 5) = 7.830 BETA (4) = 4.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.000	.2081	.2004	.1681	-.0439	-.3100	-.2686	-.2278		-.1876	-.1789
40.000	.1809	.1939	.1964	-.2262	-.4036	-.2736	-.1930		-.1677	-.1759
70.000	-.0921	-.2317	-.2279	.0484	-.1486	-.2048	-.2190			
90.000	-.0487	-.1819	-.0741	-.0318	-.1864	-.2096	-.2441			
105.000		.0514	-.1004	-.2232	-.2665	-.2831				
110.000							-.2939			
120.000	.0826	-.0001	.1236	-.0365	-.3599	-.2492	-.3135			
135.000			.5782	.2667	-.2992	-.2879	-.3180			
150.000	.0809	.1072	.3811	.3644	-.2010	-.2960	-.4174			
165.000	.0884		.3254		-.0973	-.2947	-.3362			
180.000	.0907	.1042	.2848	.4359						

ALPHAX 5) = 7.610 BETA (5) = 6.200

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4950	.3780
PHI															
.000	1.2000	.3804	.0742	.0691	-.0161	.0000		-.4087	-.0409	-.0481	-.0665	-.1175	-.0421	.0469	
20.000		.0583	.0678	.0206	-.0125		-.2551	-.1283	-.1768	-.1173	-.1240	-.1408	-.0036	.0981	
40.000		.0897	.0664	.0311	-.0896		-.2920	-.1388	-.1368						
55.000		.1936	.0227	-.0036	-.1446		-.3979	-.3223	-.3223	-.4176	-.3442	-.3046	-.0246		
70.000		.0845	.1453	-.0120	-.0893	-.1186	-.1476	-.3491	-.3491	-.6497	-.3907	-.3033	.0206		
80.000		.2176	.0410	-.0428	-.0699		.0538	-.3639	-.3639	-.6400	-.7793	-.3033	-.0187		
120.000		.2106	.1382	.0382	-.0192		.1329	-.8245	-.8245	-.7137	-.3268	-.3782	-.0491		
130.000							.4739								
151.000															
156.000															
162.000															
169.000															
174.000															
180.000	1.2000	.4184	.2910	.1678	.1033	.0794		-.6220	-.6220	-.6907	-.2805	-.4230	-.0936		

ALPHAX 5) = 7.610 BETA (5) = 6.200

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6980	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.000	.1271	.1485	.1463	-.1382	-.2871	-.2712	-.2760		-.2351	-.2097
40.000	.1348	.1887	.2219	-.2180	-.4276	-.2725	-.2111		-.1933	-.1896
78.000	-.0884	-.2291	-.1804	.0403	-.2156	-.2748	-.2614			
90.000	-.0486	-.1707	-.0668	.0363	-.2339	-.2966	-.2966			
105.000		.0301	-.0131	-.2891	-.3401	-.3484				
110.000							-.3136			



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(R01630)

MFC11-716 1A14 OL-712-512MS-AT11 ORG. FUSELAGE

ALPHAO (S) = 7.910 BETAO (S) = 0.200

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP		
1/LS	.0880	.7900	.7610
	.0230	.0230	.0230
	.9230	.9230	.9230
	.630	1.0000	1.0210
	1.0400		
PMI			
120.000	.0874	-.0214	.1908
			-.0208
			-.3986
			-.3901
			-.3553
135.000	.4916	.2242	-.4009
			-.3886
			-.4203
150.000	.0328	-.1088	2.303
			-.2225
			-.3876
			-.3126
165.000	-.0078	.1429	-.1886
			-.3828
			-.3403
180.000	.0123	-.0181	.1296
			.2016

ARC11-716 1A14 CR-T12-S12MS-AT11 CRG. FURBLAGE
 REFERENCE DATA
 SREF = 2.4210 24. FT. 3RHP = 29.3600 INCHES
 LREF = 36.7090 INCHES 3RHP = .0000 INCHES
 DREF = 36.7090 INCHES 3RHP = .0000 INCHES
 SCALE = .0300 SCALE
 PARAMETRIC DATA
 MACH = 1.400 ELEVON = .000
 RUDDER = .000 SPOONK = .000

ALPHAX (1) = -7.920 BETA (1) = -0.040

SECTION (1)	ORBITER FURBLAGE	DEPENDENT VARIABLE CP													
W/L	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.4160	.6472	.4762	.2965	.2631	.0000	-.0036	.0029	.1337	.0295	-.1004	-.1666	-.1076	
20.000			.3796	.3400	.3608	.6757	-.0492		-.0962						
40.000			.6095	.4621	.5062	.9032	-.0096		.0983	-.0245	-.0919	-.0752	-.0713	.0727	
55.000			.9536	.6466	.4627	.4462	.2694		.1564						
70.000			.9676	.7150	.5239	.4766	.3775		.2282	-.1067	.0361	.0344	.0442		
90.000		1.1600	.9682	.7967	.5479	.5019	.4166		.2346	-.0743	-.0457	.0015	.0472		
120.000			.9125	.6993	.5936	.6129	.6399		.2967	.0079	-.2479	-.0263	.0194		
140.000			.7770	.6414	.5636	.6407	.7654		.2762	-.2790	-.1661	-.0662	-.0197		
170.000							1.0500								
176.000															
182.000															
186.000															
189.000															
194.000		1.4160	.9466	.6856	.5704	.5836	1.0430								
199.000															
W/L	.6000	.7500	.7610	.6250	.6620	.6230	.9630	1.0020	1.0210	1.0460					
PHI	.000	.1416	.2836	.3601	-.4601	-.2401	-.2376								
40.000		.1907	.9149	.1333	-.3647	-.9161	-.4179								
70.000		.0668	.0066	-.0491	.1820	.1221	.1040	.1110							
90.000		.0976	.0952	.0093	.2122	.1033	.0404	.0744							
106.000			.1827	.1801	.0410	.0223	.0576								
110.000								.0165							
120.000		.0967	.0270	.3373	.4262	-.0266	.0792	.1217							
132.000			.4016	.3324	-.0192	.2326	.2031								
150.000		-.0496	-.0370	.2037	.1272	.3079	.1333								
169.000		-.0909		.1956	.9777	.3751	.0796								
190.000		-.1296	-.0762	.2467	.3667										

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 OF POOR QUALITY



5

ALPHA(1) = -7.900 BETA(1) = .000

ARC11-716 IAI4 OL-112-312MS-AT11 CR8. FUSBLAGE

06181040)

SECTION (1) CRIBITER FUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0040	.0230	.0470	.0700	.1120	.1590	.1870	.1700	.2030	.2320	.3010	.3790	.4990	.9700
PHI															
120.000		.7596	.5644	.4810	.5070	.4656			.0596	-.1751	-.3616	-.1816	-.0646		
140.000									-.09217						
150.000		.7561	.6431	.5492	.6189				-.1591	-.2761	-.1601	-.0997	-.0570		
151.000									.6599						
154.000						.9193			.7242						
162.000									-.1407	-.2571	-.0960	-.0806	-.0064		
165.000															
168.000															
174.000						1.1120									
180.000	1.4750	.9763	.7500	.6531	.5900	.6607		1.0270		-.2632	-.2664	-.0361	-.0833	-.0609	
W/LB	.6850	.7500	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					

W/LB	.0000	.0230	.0470	.0700	.1120	.1590	.1870	.1700	.2030	.2320	.3010	.3790	.4990	.9700
PHI														
40.000	.0268	.0822	.2016	.2321	.3930	-.2819	-.2685		-.2333	-.2320				
70.000	-.0150	.0609	.3051	-.2226	-.4161	-.3468	-.2719		-.1965	-.2163				
90.000	.0178	-.0313	.0080	1.328	.0910	.0433	.0439							
105.000	.0266	-.0194	.0950	1.468	.0268	.0155	.0396							
110.000			1.681	1.039	-.0367	-.0040	.0192							
120.000	.0204	.0073	.1996	1.435	-.1607	-.0706	-.0319	-.0793						
135.000			.9077	.4650	-.0097	-.0083	-.0649	-.0654						
150.000	.0009	.0168	.4414	.5739	1.365	.0769	-.0781							
165.000	.0014		.4387	1.3290	1.001	-.1250								
180.000	-.0006	.0168	.4394	.5715										

ALPHA(1) = -7.900 BETA(1) = 4.100

SECTION (1) CRIBITER FUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1700	.2030	.2320	.3010	.3790	.4990	.9700
PHI															
20.000	1.4540	.9096	.4178	.2260	.3172	.0000				.1378	.0322	.0019	-.0759	-.1851	-.1326
40.000			.4219	.2222	.3124	.4404				.0436					
60.000			.4885	.2462	.2929	.3294				.0247	.0806	-.0108	-.0541	-.1326	-.0661
80.000			.5130	.2786	.2809	.2900				-.0745					
100.000		.6464	.5545	.3124	.2593	.2475				-.0079	-.3338	-.2031	-.1439	-.0494	
120.000			.9803	.3611	.2348	.2324				-.0403	-.3091	-.3177	-.1251	-.0489	
140.000			.6379	.4486	.3441	.4035				-.0396	-.2325	-.4362	-.2479	-.1179	
160.000										-.1877					
180.000			.6809	.3782	.4765	.5495				-.2032	-.2767	-.1173	-.1426	-.1243	
194.000															
182.000															



0818401

ALPHAO1 1) = -0.000 BETAO (1) = 0.100

SECTION (1) ICHEMITER PUBLARGE DEPENDOOR VARIABLE CP

W/LB	.0000	.7000	.7010	.0200	.0000	.0200	.9000	.9000	1.0000	1.0010	1.0400
PHI											
.000	-.0001	-.0006	.0400	-.0774	-.3404	-.3000	-.3100			-.2706	-.2400
40.000	-.0007	-.0042	.1470	-.3744	-.4200	-.3345	-.2070			-.2716	-.2047
80.000	-.0008	-.0007	.0047	.0141	-.0070	-.0000	-.0400				
120.000	-.0010	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000				
160.000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000				
180.000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000				
190.000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000				
200.000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000				

ALPHAO2 2) = -4.000 BETAO (1) = -0.100

SECTION (1) ICHEMITER PUBLARGE DEPENDOOR VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1100	.1300	.1670	.1700	.2000	.2300	.3010	.3700	.4900	.9700
PHI															
.000	1.3700	.0400	.0006	.2048	.1900	.0000		-.0400		-.1046	.0000	.0424	-.1100	-.1070	-.0000
40.000		.0132	.3404	.2000	.0000	.0000		-.0070		-.1074		.1000	-.0000	-.0000	.0700
80.000		.0440	.4700	.2000	.0000	.0000		-.0000		.1000		.0000	-.0000	-.0000	.0700
120.000		.0710	.0000	.4000	.4000	.0000		.0000		.1000		.0000	-.0000	-.0000	.0700
160.000		.0900	.0000	.0000	.0000	.0000		.0000		.1000		.0000	-.0000	-.0000	.0700
180.000		.1100	.0000	.0000	.0000	.0000		.0000		.1000		.0000	-.0000	-.0000	.0700
190.000		.1300	.0000	.0000	.0000	.0000		.0000		.1000		.0000	-.0000	-.0000	.0700
200.000		.1500	.0000	.0000	.0000	.0000		.0000		.1000		.0000	-.0000	-.0000	.0700

W/LB	.0000	.7000	.7010	.0200	.0000	.0200	.9000	.9000	1.0000	1.0010	1.0400
PHI											
.000	1.1000	.2000	.3140	.3700	-.0000	-.2400	-.2400			-.1970	-.1000
40.000	.0000	.0000	.0000	.0000	-.0000	-.0000	-.0000			-.2000	-.1000
80.000	.0000	.0000	.0000	.0000	-.0000	-.0000	-.0000			-.2000	-.1000
120.000	.0000	.0000	.0000	.0000	-.0000	-.0000	-.0000			-.2000	-.1000
160.000	.0000	.0000	.0000	.0000	-.0000	-.0000	-.0000			-.2000	-.1000
180.000	.0000	.0000	.0000	.0000	-.0000	-.0000	-.0000			-.2000	-.1000
190.000	.0000	.0000	.0000	.0000	-.0000	-.0000	-.0000			-.2000	-.1000
200.000	.0000	.0000	.0000	.0000	-.0000	-.0000	-.0000			-.2000	-.1000

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ARC11-716 1A14 CR+T12+S12E5+AT11 CRG. FUSELAGE (RB1B40)

ALPHA(2) = -3.330 BETA(3) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.4480	.9056	.4667	.2260	.2625	.0000		-.0170		-.2311	.0143	.0200	-.0444	-.1293	-.1314
20.000		.5135	.2660	.2460	.5413			-.1287		-.0077					
40.000		.6106	.3341	.2377	.3843			-.1869		-.1035	.0161	-.0006	-.0300	-.0776	-.0853
55.000		.6585	.4020	.3025	.2826			.0603		-.0610					
70.000		.6736	.4266	.3030	.2336			.1566		.0307	-.3099	-.1661	-.1235	-.0576	
90.000		.6032	.4625	.4443	.2940	.2336		.2100		.0275	-.2635	-.3063	-.1401	-.0361	
120.000		.6829	.4868	.3646	.3924			.4493		-.0551	.0468	-.2037	-.4171	-.2336	-.0826
140.000										-.1973	-.3367	-.2266	-.1704	-.0972	
151.000					.4426	.4932			.6069						
156.000								.8616							
162.000									.6851						
165.000								.9652		-.1866	-.2955	-.1765	-.1565	-.1124	
169.000															
174.000						1.0530		.9643		-.3422	-.3218	-.1316	-.1477	-.1156	
180.000	1.4480	.6829	.6371	.5435	.4744	.5236									
W/LB	.6880	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	.0635	.1469	.2162	.2336	-.4661	-.2611	-.2461		-.2004	-.2030					
40.000	.0113	.1972	.3399	-.1302	-.3998	-.4068	-.2619		-.1683	-.1936					
70.000	-.0364	-.1116	-.0941	.0961	.0315	-.0151	-.0114								
90.000	-.0147	-.0807	.0151	.0739	-.0260	-.0461	-.0293								
105.000		.1196	.0396	-.0505	-.0694	-.0504									
110.000								-.1237							
120.000	-.0212	-.0225	.1461	.1363	-.1732	-.1113	-.0782	-.1073							
135.000		.4365	.4211	-.0796	-.0260	-.0620									
150.000	-.0805	-.0073	.3635	.4695	.0635	.0267	-.1154								
165.000	-.0265		.3648		.6008	.0330	-.1645								
180.000	-.0260	-.0009	.3638	.4794											
ALPHA(2) = -3.940 BETA(4) = 4.100															
SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP															
W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.4370	.9353	.4113	.1541	.2429	.0000		.0423		-.2469	.0413	.0003	-.0873	-.1733	-.1313
20.000		.4199	.1800	.2394	.4236			-.1069		-.0630					
40.000		.4807	.2182	.2056	.2982			-.2791		-.0596	.0117	-.0316	-.0623	-.1561	-.0379
55.000		.5019	.2531	.2039	.2223			-.0144		-.1146					
70.000		.5309	.2839	.1994	.1562			.1018		-.0296	-.3514	-.2393	-.1801	-.0680	
90.000		.5113	.3130	.2011	.1537			.1808		-.0504	-.3232	-.3616	-.1796	-.0692	

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(R81840)

ARC11-716 1A14 01-T12-S12K25-AT11 CRB. FUSELAGE

ALPHAOX (2) = -3.940 BETAO (4) = 4.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
120.000		.5795	.3904	.2897	.2669	.3624									
140.000															
150.000		.9854	.4907	.3601	.4088										
151.000															
156.000						.7606									
162.000															
165.000															
169.000															
174.000															
180.000	1.4370	.6133	.6309	.5416	.4639	.4913	1.0360								
X/LB	.6680	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0882	.1095	.1425	.0442	-.4622	-.2951	-.2608								
40.000	-.0265	.0654	.1624	-.2795	-.4029	-.3314	-.2365								
70.000	-.0277	-.0976	-.0316	.0723	.0133	-.0384	-.0353								
90.000	-.0171	-.0673	-.0516	.0665	-.0412	-.0721	-.0617								
105.000			.1036	.0286	-.1049	-.0696	-.0812								
110.000															
120.000	-.0480	-.0246	.0420	.0115	-.2510	-.1763	-.1532								
135.000			.3426	.3949	-.1602	-.1616	-.2069								
150.000	-.0480	-.0419	.3307	.4891	.0384	-.0824	-.1978								
165.000	-.0393		.3287		.4950	-.0254	-.2206								
180.000	-.0287	-.0417	.3239	.4108											

ALPHAOX (2) = -3.990 BETAO (5) = 6.190

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000		1.4880	.6549	.3126	.0447	.0703	.0000								
20.000			.2577	.0432	.1072	.3243									
40.000			.2364	.0669	.0901	.1960									
50.000			.2932	.1091	.0746	.1399									
70.000			.3533	.1344	.0682	.1331									
90.000		.3482	.3653	.1621	.0734	.0263									
120.000			.4424	.2741	.1264	.1271									
140.000															
150.000			.4733	.4098	.3082	.2627									
151.000															
156.000															
162.000															

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ARC11-716 IA14 01-7112-SIZES-AT111 CRB. FUSELAGE

(R81840)

ALPHAX 2) = -3.950 BETA0 (5) = 8.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0080 .0230 .0470 .0700 .1120 .1590 .1870 .1780 .2030 .2320 .3010 .3790 .4990 .5780

PHI

165.0000
168.0000
174.0000
190.0000 1.4030 .7424 .5811 .4781 .4094 .3613 .9636
-2905 -.3327 -.2167 -.1836 -.2015

X/LB .6530 .7500 .7810 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI

.0000
40.0000
70.0000
90.0000
105.0000
110.0000
120.0000
135.0000
150.0000
165.0000
180.0000
-0.0069 .0108 .0712 .0821 -.4011 -.2506 -.2410
-.0822 .0042 .1430 .2786 .3864 .2916 -.2184
-.0283 -.1195 -.0526 .0167 .0097 .0682 -.0775
-.0388 .0811 -.0082 .0185 .0891 .1065 .0994
-.0523 .0003 .-1.423 .-1.209 .-1.268
-.0885 .0065 .-0.851 .-1.446 .-3.951 .-2.336 .-2.497
-.1123 .2907 .-2.768 .-3.217 .-3.642
-.1584 .-0926 .2248 .4039 .-0179 .-1.537 .-2.720
-.1896 .2223 .4017 .-1.032 .-2.561
-2054
-2361

ALPHAX 3) = -3.70 BETA0 (1) = -8.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0080 .0230 .0470 .0700 .1120 .1590 .1870 .1780 .2030 .2320 .3010 .3790 .4990 .5780

PHI

.0000
20.0000
40.0000
55.0000
70.0000
90.0000
120.0000
140.0000
150.0000
151.0000
154.0000
162.0000
165.0000
169.0000
174.0000
190.0000 1.3780 .9794 .5101 .2822 .1433 .0000
.6293 .3522 .1915 .6510
.8615 .4858 .2896 .9027
.9755 .8537 .4401 .3501
.9798 .6855 .4886 .3136
1.1850 .9194 .6850 .4859 .3306
1.0000 .7836 .5479 .4197 .3727
1.0000
130.0000
151.0000
154.0000
162.0000
165.0000
169.0000
174.0000
190.0000 1.3780 .7499 .4549 .3647 .3216 .2936
1.0280
-1805 -.1845 .0484 -.0874 -.1268 .0782
-1504
.0490 .-1059 .1972 .0210 .0868 .1264
.0771
.1649 .-1863 .-1123 .0410 .-0370
.2115 .-1249 .-1368 .0098 .-0382
.2472 .-0360 .-3010 .-1630 .-1391
.2059
.1162 .-3825 .-3181 .-2127 .-1319
7308
9818
7457
-2598 .-3366 .-3083 .-2233 .-1607
-3324 .-3598 .-2631 .-2175 .-1985

X/LB .6530 .7500 .7810 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480



ARC11-716 1A14 01+112+312E5+AT11 CRB. FUSELAGE

(M61640)

ALPHAO1 3) = -.360 BETA0 (2) = -4.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0833	-.0896	.2184	.3194	-.1278	-.1264	-.0929	-.0921		
135.000		.3185	.2834	-.1237	.0537	-.0028				
150.000	-.0933	-.0977	.2359	.2482	.0946	.1112	-.0324			
165.000	-.0867		.2652	.2026	.1123	-.0972				
180.000	-.0782	-.0117	.2564	.2923						

ALPHAO1 3) = -.360 BETA0 (3) = .020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.2030	.2520	.3010	.3790	.4990	.5760
PHI														
20.000	1.4680	1.0300	.4532	.1816	.2266	.0000		-.0114	-.2267	-.1901	.1432	-.0372	-.1043	-.0707
40.000		.3095	.2346	.2273	.5399			-.1456	-.0419	-.1166	-.1727	.0482	-.0204	-.0716
55.000		.8159	.3078	.2473	.3627			-.1922	-.0681	-.0881				-.0532
70.000		.6614	.3631	.2937	.2351			.0174	.0442	-.3013	-.2731	-.1278	-.0842	
90.000	.7663		.6661	.4060	.2927	.1930		.0932	.0383	-.2578	-.3107	-.2206	-.0832	
120.000		.6436	.4327	.2770	.1645			.1798	.0363	-.2380	-.4118	-.2824	-.0932	
140.000		.6237	.4327	.3281	.2923			.4236	-.0553					
150.000		.5793	.4676	.3684	.3378				-.2215	-.3804	-.2797	-.1994	-.1242	
174.000								.6490						
182.000														
165.000								.9478						
169.000														
174.000														
180.000	1.4680	.7680	.5439	.4678	.3936	.3540	1.0000	.9203	-.2262	-.3443	-.2387	-.1979	-.1809	
180.000	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	-.3827	-.3634	-.1869	-.1944	-.1666	

X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
40.000	.1267	.1926	.2447	.2349	-.4324	-.2431	-.2314		-.1778	-.1798
60.000	.1056	.2100	.3553	-.0088	-.3756	-.4048	-.3174		-.1444	-.1699
70.000	-.0522	-.1356	-.1465	-.0100	-.0145	-.0669	-.0544			
90.000	-.0239	-.0978	-.0334	.0346	-.0770	-.0982	-.0876			
105.000		.0793	.0236	-.1332	-.1236	-.1020				
110.000										
120.000	-.0360	-.0153	.1332	.1912	-.1691	-.1395	-.1320	-.1672		
135.000		.2925	.3828	-.0848	-.0332	-.0964				
150.000	-.0390	.0328	.2751	.3665	.0600	.0077	-.1364			
165.000	-.0390		.2915	.2298	.0273	-.1707				
180.000	-.0385	.0036	.3006	.3643						



ALPHA(X) = -.360 BETAO (4) = 4.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1700	.2030	.2010	.3790	.4990	.5760
PHI														
.000	1.4710	.9679	.3773	.1024	.2105	.0000	.0411			-.2390	-.1235	.0395	-.0900	-.0366
20.000		.3604	.1430	.1993	.4100		-.1231			-.0962				
40.000		.4403	.1931	.1695	.2707		-.2937			-.1065	-.1363	-.0265	-.0551	.0199
60.000		.4786	.2329	.1705	.1493		-.0603			-.1365				
70.000		.3074	.2370	.1702	.1145		.0531			-.0410	-.3542	-.3267	-.1927	-.1124
90.000	.5983	.4899	.2831	.1566	.1123		.1360			-.0442	-.3287	-.3083	-.2409	-.1121
120.000		.5340	.3458	.2306	.2111		.3534			-.0447	-.2699	-.4638	-.2997	-.1244
140.000										-.2072				
150.000		.3232	.4289	.3130	.2703			.4719		-.2690	-.3776	-.2681	-.2417	-.2025
151.000								.7497						
156.000								.9623						
170.000										-.2295	-.3798	-.2108	-.2171	-.1905
169.000	1.4710	.7193	.5408	.4802	.3666	1.0140								
168.000						.6660								
174.000						.6903				-.3454	-.3444	-.2311	-.2003	-.1543
160.000	.6880	.7500	.7610	.6230	.6620	.9230	.9430	1.0210	1.0460					

PHI

X/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1700	.2030	.2010	.3790	.4990	.5760
.000														
40.000	.0789	.1547	.1616	.0529	-.4687	-.2613	-.2477			-.1862	-.1797			
70.000	.0463	.1146	.2049	-.2327	-.3929	-.3162	-.2225			-.1630	-.1746			
90.000	-.0366	-.1237	-.1068	-.0014	-.0242	-.0666	-.0648							
105.000	-.0062	-.0746	.0222	.0243	-.0869	-.1083	-.1129							
110.000		.1015	.0228	-.1520	-.1323	-.1268								
120.000	-.0465	.0142	.0901	.0228	-.2326	-.1924	-.1670	-.1968						
135.000		.2973	.3605	-.1606	-.1536	-.1966								
130.000	-.0300	.0392	.2752	.3747	.0147	-.0600	-.2162							
165.000	-.0687	.2628		.2663	-.0434	-.2372								
160.000	-.0784	-.0134	.2631	.3362										

ALPHA(X) = -.360 BETAO (5) = 6.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1700	.2030	.2010	.3790	.4990	.5760
PHI														
.000	1.3670	.6440	.2549	-.0091	.0347	.0000	-.0939			-.2033	.0016	-.1429	-.1143	-.2426
20.000		.1930	-.0096	.1116	.2846		-.1149			-.2018				
40.000		.1609	.0641	.1120	.1602		-.2475			-.1675	-.1756	-.0725	-.1701	-.1675
55.000		.2410	.0656	.0798	.0821		-.1659			-.1962				
70.000		.3085	.1053	.0519	.0630		-.0177			-.1147	-.4126	-.3419	-.2671	-.1206
90.000	.3093	.3170	.1504	.0519	.0330		.0676			-.1174	-.3994	-.4357	-.2665	-.1295

(R01840)

ALPHAO(3) = -.300 BETA0 (5) = 0.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
120.000															
140.000															
150.000															
151.000															
154.000															
162.000															
169.000															
174.000															
190.000															

ALPHAO(4) = 4.080 BETA0 (1) = -6.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
40.000															
70.000															
90.000															
109.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHAO(3) = -.300 BETA0 (5) = 0.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
70.000															
80.000															
90.000															
100.000															
110.000															
120.000															
140.000															
150.000															
151.000															
154.000															
162.000															
169.000															
174.000															
190.000															



ALPHAXI (1) = 4.000 BETA0 (1) = -0.000

(R81840)

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0230	.3470	.0700	.1120	.1990	.1670	.1790	.2090	.2920	.3010	.3790	.4990	.9760
PHI															
169.000															
169.000															
174.000															
180.000	1.3990	.6711	3.402	3026	.2415	.2083	1.0200	.9517							
X/LB	.6530	.7900	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
169.000															
169.000															
174.000															
180.000	1.3990	.6711	3.402	3026	.2415	.2083	1.0200	.9517							
PHI															
169.000															
169.000															
174.000															
180.000	1.3990	.6711	3.402	3026	.2415	.2083	1.0200	.9517							

X/LB	.0000	.0000	.0230	.3470	.0700	.1120	.1990	.1670	.1790	.2090	.2920	.3010	.3790	.4990	.9760
PHI															
169.000															
169.000															
174.000															
180.000	1.3990	.6711	3.402	3026	.2415	.2083	1.0200	.9517							
X/LB	.6530	.7900	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
169.000															
169.000															
174.000															
180.000	1.3990	.6711	3.402	3026	.2415	.2083	1.0200	.9517							

SECTION (2) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0230	.3470	.0700	.1120	.1990	.1670	.1790	.2090	.2920	.3010	.3790	.4990	.9760
PHI															
169.000															
169.000															
174.000															
180.000	1.3990	.6711	3.402	3026	.2415	.2083	1.0200	.9517							
X/LB	.6530	.7900	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
169.000															
169.000															
174.000															
180.000	1.3990	.6711	3.402	3026	.2415	.2083	1.0200	.9517							

SECTION (3) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0230	.3470	.0700	.1120	.1990	.1670	.1790	.2090	.2920	.3010	.3790	.4990	.9760
PHI															
169.000															
169.000															
174.000															
180.000	1.3990	.6711	3.402	3026	.2415	.2083	1.0200	.9517							
X/LB	.6530	.7900	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
169.000															
169.000															
174.000															
180.000	1.3990	.6711	3.402	3026	.2415	.2083	1.0200	.9517							

SECTION (4) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0230	.3470	.0700	.1120	.1990	.1670	.1790	.2090	.2920	.3010	.3790	.4990	.9760
PHI															
169.000															
169.000															
174.000															
180.000	1.3990	.6711	3.402	3026	.2415	.2083	1.0200	.9517							
X/LB	.6530	.7900	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
169.000															
169.000															
174.000															
180.000	1.3990	.6711	3.402	3026	.2415	.2083	1.0200	.9517							

08018-01

ARC11-718 1A14 04+718+SIEMENS+AT11 CR8. FURSLAGE

ALPHAX 4) = 4.080 BETAO (2) = -4.080

SECTION (1) ORBITER FURSLAGE DEPENDENT VARIABLE CP

K/LB	.6830	.7300	.7810	.8230	.8660	.9230	.9630	1.0210	1.0480
PHI									
.000	.2837	.2882	.3344	.3291	-.4379	-.2232	-.2293	-.1268	-.1224
40.000	.1870	.3716	.6137	-.3374	-.4931	-.4137		-.1836	-.1914
70.000	-.0203	-.1264	-.2173	-.1706	-.0432	-.0823	-.0796		
90.000	-.0235	-.1376	-.1938	.0204	-.1045	-.136	-.1465		
105.000		-.1382	.0207	-.1106	-.1974	-.1834			
110.000									
120.000	-.1468	-.1608	.1387	.3431	-.1289	-.1741	-.1261		
125.000		.2932	.2335	-.1990	-.0017	-.0406			
130.000	-.1030	-.0274	.2321	.1728	.0312	.0688	-.0871		
145.000	-.0719	.1981		.1354	.0337	-.1174			
160.000	-.0479	.1076	.1782	.2488					

ALPHAX 4) = 4.010 BETAO (2) = .080

SECTION (1) ORBITER FURSLAGE DEPENDENT VARIABLE CP

K/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.2030	.2320	.3010	.3750	.4990	.3760
PHI														
.000	1.4870	1.0860	.3796	.1194	.2230	.0000	.0696	-.1699	-.2717	-.2117	.0170	-.0096	.0720	
20.000		.4812	.1633	.2190	.3297		-.1563	-.0818	-.1811	-.2322	-.1816	.0185	-.0286	.0291
40.000		.9870	.2603	.3485			-.1931	-.1458						
55.000		.6474	.3570	.2331	.2108		-.0014	.0066						
70.000		.6464	.3729	.2406	.1753		.0653	.0066						
90.000		.7489	.6186	.3940	.2312	.1333	.1141	.0500						
120.000		.3685	.3990	.2970	.2060	.4306		.0330						
140.000								-.0567						
150.000		.4908	.3716	.2879	.2380			-.2542						
151.000							.8347							
156.000														
162.000														
169.075														
169.000														
174.000														
180.000	1.4670	.6872	.4387	.3711	.3137	.2477	.9026	-.2781	-.9936	-.2889	-.2464	-.1896		

SECTION (1) ORBITER FURSLAGE DEPENDENT VARIABLE CP

K/LB	.6830	.7300	.7810	.8230	.8620	.9230	.9630	1.0210	1.0480
PHI									
.000	.1839	.2410	.2651	.2081	-.4368	-.2446	-.2266	-.1820	-.1628
40.000	.1791	.2664	.3608	.0801	-.3791	-.4089	-.3415	-.1471	-.1347
70.000	-.0679	-.1794	-.2113	-.0839	-.0439	-.1026	-.1072		
90.000	-.0340	-.1412	-.1531	.0146	-.1329	-.1466	-.1605		
105.000		.0484	.0133	-.1334	-.2226	-.1640			
110.000									



DATE 08 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

MCC11-716 1A14 ORBITER PUSHLAGE (081840)

ALPHAX (4) = 4.010 BETA (3) = .030

SECTION (1) ORBITER PUSHLAGE DEPENDANT VARIABLE CP

X/LB	.6530	.7500	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
180.000	-.0063	-.0043	.1735	.2330	-.1943	-.1774	-.1073	-.1741		
190.000		.3756	.2902	-.1392	-.0554	-.1150				
190.000	-.0291	.0930	.2164	.2361	.0130	-.0297	-.1066			
185.000	-.0254		.2320		.1127	-.0176	-.2100			
180.000	-.0254	.0028	.2300	.3276						

ALPHAX (4) = 4.040 BETA (4) = 4.050

SECTION (1) ORBITER PUSHLAGE DEPENDANT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.4440	.9584	.3002	.1187	.2478	.0000		.0457	-.2690	-.2516	-.0457	.0035	-.0136	.0599	
20.000		.3427	.0987	.2232	.3904			-.1321	-.1263						
40.000		.4803	.1613	.1697	.2419			-.2961	-.1437	-.2173	-.1173	-.0443	-.0631	.0600	
55.000		.4598	.2245	.1664	.1004			-.2045	-.0535	-.3627	-.3432	-.1940	-.1207		
70.000		.4768	.2372	.1496	.0779			-.0172	-.0535	-.3627	-.3432	-.1940	-.1207		
90.000		.9101	.4846	.2355	.1262	.0407		.0734	-.0262	-.3339	-.3924	-.3028	-.1132		
120.000		.4796	.2838	.1987	.1542			.3547	-.0321	-.3240	-.4657	-.3269	-.1235		
140.000									-.2220						
150.000		.4463	.3471	.2775	.1682				-.3065	-.4366	-.3211	-.2742	-.2028		
151.000								.7465	.4308						
154.000									.5301						
162.000									-.2863	-.4233	-.2627	-.2392	-.2288		
169.000															
174.000								.6715							
190.000	1.4440	.6418	.4486	.3719	.3088	.2434	.9916	.6653	-.4033	-.3920	-.2505	-.2499	-.1972		

X/LB .6530 .7500 .7910 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

SECTION (1) ORBITER PUSHLAGE DEPENDANT VARIABLE CP

X/LB	.6530	.7500	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1914	.2090	.2112	.0597	-.4432	-.2706	-.2504		-.1758	-.1718
40.000	.1203	.1702	.2258	-.1882	-.3643	-.2930	-.2087		-.1547	-.1680
70.000	-.0540	-.1892	-.0704	-.0791	-.0646	-.1233	-.1311			
90.000	-.0187	-.1199	-.0866	-.0117	-.1305	-.1366	-.1618			
105.000		.0365	-.0119	-.1096	-.2128	-.1770				
110.000										
120.000	-.0084	.0031	.1728	.0931	-.2226	-.2151	-.2373	-.2161		
135.000		.2944	.3200	.1682	-.1905	-.1978				
150.000	-.0607	.0938	.2302	.2841	-.0219	-.1057	-.2346			
165.000	-.0381		.1914	.0699	-.0819	-.2469				
180.000	-.0555	.1081	.1884	.2701						

ARC11-716 1A14 01-712-812ES-AT11 CRB. PUBLAGE (081040)

ALPHA(4) = 4.000 BETA(1) = 8.100

SECTION 1 11-CRIBITER PUBLAGE DEPOSIT VARIABLE CP

W/S	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1070	.1700	.2050	.2500	.3010	.3790	.4000	.5700
PWT	.000	1.3400	.0000	.1700	-.0033	.0004	.0000	-.1643	-.2799	-.0983	-.1181	-.1375	-.1421	.0307	
20.000				.1071	.0215	.1930	.2176	-.1071	-.2277	-.0209	-.0833	-.1400	-.0490	.0244	
40.000				.1091	.0902	.1322	.1245	-.2048	-.2209	-.2992	-.0833	-.1400	-.0490	.0244	
60.000				.1442	.0967	.1146	.0325	-.1957	-.2320	-.4128	-.3022	-.2594	-.1085		
70.000				.2202	.0991	.0895	.0247	-.1007	-.1185	-.3995	-.4487	-.2937	-.1093		
90.000		.8401		.2229	.1147	.0372	.0230	.0169	-.1427	-.3602	-.5387	-.3685	-.1519		
100.000				.3076	.1634	.0659	.0539	.2150	-.2812	-.4567	-.3025	-.3149	-.2610		
120.000				.2998	.2735	.1794	.1116	.3099	-.3454	-.4567	-.3025	-.3149	-.2610		
140.000								.6902	-.3907	-.4202	-.3120	-.2658	-.2713		
160.000								.6876	-.3901	-.4165	-.3206	-.2776	-.2429		
180.000								.8127	-.3901	-.4165	-.3206	-.2776	-.2429		
190.000								.7643	-.3901	-.4165	-.3206	-.2776	-.2429		
W/S	1.3400	.5419	.3433	.3080	.2434	.1864	.0974	.7643	-.3901	-.4165	-.3206	-.2776	-.2429		
W/S	.0000	.7500	.7610	.6250	.6620	.9250	.9630	1.0210	1.0490						

W/S	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1070	.1700	.2050	.2500	.3010	.3790	.4000	.5700
PWT	.000	.0000	.1976	.1001	-.0507	-.4491	-.2003	-.2215	-.1706	-.1601	-.1375	-.1375	-.1375		
20.000			.0707	.1340	.2040	-.3908	-.2684	-.1723	-.1473	-.1375	-.1375	-.1375	-.1375		
40.000			-.0453	-.1795	-.1950	-.0690	-.0375	-.1393	-.1473	-.1375	-.1375	-.1375	-.1375		
60.000			-.0146	-.1171	-.1243	-.0265	-.1315	-.1419	-.1731	-.1731	-.1731	-.1731	-.1731		
70.000				-.0063	-.0049	-.2200	-.2071	-.1965	-.2540	-.2540	-.2540	-.2540	-.2540		
90.000				-.0088	-.0049	-.2310	-.2409	-.2434	-.2303	-.2303	-.2303	-.2303	-.2303		
100.000				.2372	.2043	-.2242	-.2799	-.2783	-.2783	-.2783	-.2783	-.2783	-.2783		
120.000				-.0982	.0481	.1619	-.0682	-.1771	-.3036	-.3036	-.3036	-.3036	-.3036		
140.000				-.0000	.0000	.0551	-.1877	-.2771	-.2771	-.2771	-.2771	-.2771	-.2771		
160.000				-.1688	.0000	.1050	.1722								

ALPHA(5) = 8.000 BETA(1) = -8.000

SECTION 1 11-CRIBITER PUBLAGE DEPOSIT VARIABLE CP

W/S	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1070	.1700	.2050	.2500	.3010	.3790	.4000	.5700
PWT	.000	1.3470	1.0200	.8237	.2359	.0749	.0000	-.1626	-.1365	-.2369	-.0127	-.0163	.0405	.1763	
20.000				.6825	.3491	.1536	.6107	-.1314	-.1930	-.1346	.1803	.1481	.1312	.1834	
40.000				.9229	.3401	.3179	.3179	-.1314	-.1425	-.1346	.1803	.1481	.1312	.1834	
60.000				.9499	.6833	.4760	.2504	.0934	-.0339	-.1346	.1803	.1481	.1312	.1834	
70.000				.9304	.6818	.4328	.2644	.1404	.0320	-.1798	-.0836	.0441	-.0290		
90.000				1.0720	.6327	.6006	.2691	.1857	.1436	-.1509	-.1168	-.0168	-.0509		

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 LA14 CR-718-61828-1711 CRB. PURCHASE

0800-001

ALPHAO1 9 = 7.000 BETAO (2) = -4.000

SECTION (1) : CRITTER PURCHASE DEPENDOR VARIABLE CP

W/LB	.0000	.0000	.0000	.0000	.0470	.0700	.1100	.1900	.1070	.1700	.2050	.2900	.3010	.3700	.4000	.5700
PH1																
100.000																
100.000																
174.000																
100.000	1.4200	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000

ALPHAO1 9 = 7.000 BETAO (3) = .000

SECTION (1) : CRITTER PURCHASE DEPENDOR VARIABLE CP

W/LB	.0000	.0000	.0000	.0000	.0470	.0700	.1100	.1900	.1070	.1700	.2050	.2900	.3010	.3700	.4000	.5700
PH1																
100.000																
100.000																
174.000																
100.000	1.4200	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000

ALPHAO1 9 = 7.000 BETAO (3) = .000

SECTION (1) : CRITTER PURCHASE DEPENDOR VARIABLE CP

W/LB	.0000	.0000	.0000	.0000	.0470	.0700	.1100	.1900	.1070	.1700	.2050	.2900	.3010	.3700	.4000	.5700
PH1																
100.000																
100.000																
174.000																
100.000	1.4440	1.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000

ALPHAO1 9 = 7.000 BETAO (3) = .000

SECTION (1) : CRITTER PURCHASE DEPENDOR VARIABLE CP

W/LB	.0000	.0000	.0000	.0000	.0470	.0700	.1100	.1900	.1070	.1700	.2050	.2900	.3010	.3700	.4000	.5700
PH1																
100.000																
100.000																
174.000																
100.000	1.4440	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000



(018-01)

ARC11-716 IASIA 01-712-61283-AT11 CRG. PURCHASE

ALPHAOX 20 = 7.910 BETAO (2) = .000

SECTION (1) OBSERVER PURCHASE DEPENDENT VARIABLE CP

W/L/S	3000	7500	7910	8230	8400	8230	9000	1.0000	1.0210	1.0400
PMT										
.000	.0004	.2016	.2015	.2017	.4007	-.2372	-.2180		-.1400	-.1509
40.000	.1999	.2042	.2004	.1020	.2045	-.2305	-.2109		-.1399	-.1499
70.000	-.0003	-.2001	-.2042	-.1001	-.1303	-.1363	-.1407			
90.000	-.0003	-.1003	-.1944	-.0355	-.1021	-.2134	-.2032			
109.000		.0006	-.0007	-.1007	-.2347	-.2439				
110.000							-.2212			
120.000	-.1007	-.0000	.1023	.2436	-.2021	-.2044	-.2154			
139.000		.2376	.2725	.1013	-.0013	-.1376				
150.000	-.0001	.0002	.2391	.2046	-.0237	-.0771	-.1914			
163.000	-.0121		.2422		.0149	-.0014	-.2099			
160.000	-.0129	.0410	.2442	.2043						

ALPHAOX 20 = 0.000 BETAO (4) = 0.210

SECTION (1) OBSERVER PURCHASE DEPENDENT VARIABLE CP

W/L/S	0000	0000	0230	0470	0700	1120	1390	1670	1790	2020	2350	3010	3790	4090	3700
PMT															
.000	1.0000	.2003	.0343	.0240	.0393	.0000		-.2304		-.0076	-.1262	-.0902	-.0530	-.0192	.0003
20.000		.0105	.1453	.1295	.1114			-.0767		-.1372	-.2219	-.0311	-.0504	-.0123	.0306
40.000		.0326	.1712	.1296	.0943			-.1046		-.2774	-.2224	-.0311	-.0504	-.0123	.0306
55.000		.1009	.1509	.1020	-.0030			-.2155		-.1911	-.4164	-.3464	-.2162	-.1270	
70.000		.1463	.1315	.0702	-.0057			-.1348		-.1376	-.4021	-.4579	-.2724	-.1085	
90.000	.1731	.1436	.1181	.0309	-.0211			-.0799		-.1379	-.4021	-.5981	-.3653	-.1364	
120.000		.2004	.1499	.0759	.0275			.1962		-.3225	-.3306	-.4837	-.3475	-.3497	-.1994
140.000		.1709	.2030	.1313	.0637				.2995						
171.000					.0031				.4417						
194.000								.7764							
162.000										-.3930	-.4564	-.3905	-.3241	-.2443	
169.000															
174.000						.7070									
140.000	1.0000	.4450	.2436	.2112	.1727	.1140		.7517		-.0109	-.4497	-.3005	-.3274	-.2932	

ALPHAOX 20 = 0.000 BETAO (4) = 0.210

SECTION (1) OBSERVER PURCHASE DEPENDENT VARIABLE CP

W/L/S	0000	7500	7910	8230	8400	8230	9000	1.0000	1.0210	1.0400
PMT										
.000	.1047	.1996	.1924	-.0309	-.4044	-.2292	-.2072		-.1703	-.1979
40.000	.1115	.1046	.2333	-.1079	-.3707	-.2397	-.1993		-.1406	-.1534
70.000	-.0707	-.2109	-.2491	-.1073	-.0073	-.1823	-.1099			
90.000	-.0485	-.1375	-.1019	-.0039	-.1200	-.1948	-.2067			
109.000		-.0376	-.0031	-.2437	-.1831	-.2131				
110.000							-.2301			

ARC11-716 1A14 CR+T12+312MS+AT11 CRB. PUGELAGE

(M81940)

ALPHA(C 5) = 0.000 BETA(C 4) = 0.210

SECTION (1) ORBITER PUGELAGE	DEPENDENT VARIABLE CP									
X/L5	.6350	.7300	.7810	.8250	.8820	.9250	.9650	1.0020	1.0210	1.0480
PHI										
120.000	-.0141	-.0476	.2327	.0446	-.2885	-.2886	-.2694	-.2568		
135.000			.3634	.2604	-.2151	-.2600	-.3117			
150.000	-.0108	-.0686	.1321	.1239	-.0716	-.2198	-.3243			
165.000	-.0820		.0712		.0333	-.2700	-.2875			
180.000	-.0961	-.1602	.0506	.2122						

ORIGINAL PAGE IS
POOR QUALITY



PARAMETRIC DATA

MACH = .600 ELEVON = .000
 RUDDER = .000 SPOILER = .000

REFERENCE DATA

REF = 2.4210 SQ. FT. WARP = 29.5000 INCHES
 LREF = 36.7090 INCHES YARP = .0000 INCHES
 BREF = 36.7090 INCHES ZARP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.940 BETA(1) = .020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2220	.3010	.3790	.4990	.5760
PHI	1.0660	.3132	-.0414	-.0981	-.1432	-.1966	-.2401	-.2401	-.2527	-.2408	-.2408	-.2408	-.2408	-.2408	-.2408
20,000	-.0103	-.0680	-.1226	-.1812	-.2401	-.2987	-.3573	-.4159	-.4745	-.5331	-.5917	-.6503	-.7089	-.7675	-.8261
40,000	.0877	-.0658	-.1214	-.1856	-.2442	-.3028	-.3614	-.4200	-.4786	-.5372	-.5958	-.6544	-.7130	-.7716	-.8302
55,000	.1755	-.0042	-.0923	-.1527	-.2083	-.2639	-.3195	-.3751	-.4307	-.4863	-.5419	-.5975	-.6531	-.7087	-.7643
70,000	.2453	.0415	-.0589	-.1159	-.1789	-.2359	-.2929	-.3499	-.4069	-.4639	-.5209	-.5779	-.6349	-.6919	-.7489
90,000	.4341	.2771	.0825	-.0736	-.1106	-.1402	-.1602	-.1750	-.1805	-.1805	-.1805	-.1805	-.1805	-.1805	-.1805
120,000	.3751	.1833	.1130	.0953	.0740	.0483	.0242	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047
140,000	.4276	.3446	.2740	.2483	.2142	.1742	.1342	.0942	.0542	.0142	.0047	.0047	.0047	.0047	.0047
151,000	.3742	.2742	.1742	.0742	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047
156,000	.3290	.2290	.1290	.0290	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047
162,000	.2838	.1838	.0838	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047
165,000	.2386	.1386	.0386	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047
169,000	.1934	.0934	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047
174,000	.1482	.0482	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047
180,000	.1030	.0030	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047	.0047

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6350	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI	-.1704	-.2586	-.3221	-.3680	-.4030	-.4300	-.4500	-.4650	-.4750	-.4800
40,000	-.2206	-.2960	-.3586	-.4092	-.4492	-.4792	-.5032	-.5212	-.5352	-.5452
70,000	-.0144	-.0759	-.0315	.0575	.0222	-.0378	-.0952	-.1512	-.2062	-.2592
90,000	.0109	-.0136	-.0056	.0200	.0537	-.0623	-.1315	-.1955	-.2535	-.3055
105,000	.0224	-.0635	-.1006	-.1378	-.1558	-.1658	-.1718	-.1758	-.1798	-.1818
110,000	.0231	.0537	.0351	-.2467	-.1636	-.1646	-.1619	-.1619	-.1619	-.1619
120,000	.0231	.0537	.0351	-.2467	-.1636	-.1646	-.1619	-.1619	-.1619	-.1619
135,000	.0231	.0537	.0351	-.2467	-.1636	-.1646	-.1619	-.1619	-.1619	-.1619
150,000	.0231	.0537	.0351	-.2467	-.1636	-.1646	-.1619	-.1619	-.1619	-.1619
165,000	.0231	.0537	.0351	-.2467	-.1636	-.1646	-.1619	-.1619	-.1619	-.1619
180,000	.0231	.0537	.0351	-.2467	-.1636	-.1646	-.1619	-.1619	-.1619	-.1619

ARC11-718 1A14 ORBITER FUSELAGE (RB1841)

ALPHA(1) = -7.930 BETA(2) = 4.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2320	.3010	.3790	.4990	.5760	
PHI																
20.000	1.0480	.2671	-.0716	-.1010	-.1748	-.2008		-.1937		-.1677	-.1367	-.1202	-.1270	-.1363	-.1725	
40.000			-.0695	-.1154	-.1637	-.2112		-.2655		-.1935	-.2196	-.1821	-.1295	-.1153	-.0865	-.1007
60.000			-.0245	-.1361	-.1795	-.1972		-.2703		-.2921	-.2864	-.2904	-.3634	-.1359	-.0407	.0263
80.000			.0269	-.1191	-.1904	-.2227		-.2984		-.4481	-.3428	-.1645	-.0516	.0076		
100.000		.1990	.0790	-.0962	-.1869	-.2158		-.3670		-.5290	-.4128	-.4028	-.1440	-.0797		
120.000			.1078	-.0754	-.2162	-.2361		-.3512		-.4795	-.3796	-.2788	-.1990	-.0818	-.0416	
140.000			.2060	.0221	-.0472	-.0396										
160.000			.3271	.2632	.1604	.1538		-.1779								
180.000								.2036								
200.000								-.0886								
220.000								.4402								
240.000	1.0480	.6919	-.4429	.3374	.3137	.3102	.6191	.4804		-1.2270	-.2047	-.1111	-.0478	-.0057		
260.000		.6930	.7300	.7810	.8230	.9230	.9630	1.0020	1.0210	1.0480						
280.000			-.2040	-.2686	-.3677	-.4042	-.2771	.0000	-.2275							
300.000			-.2390	-.2794	-.3235	-.3686	-.3026	-.2899	-.2016							
320.000			-.0280	-.0945	-.0781	.0195	-.0615	-.0633	-.1126							
340.000			-.0601	-.0362	-.0696	-.0590	-.1061	-.1005	-.1518							
360.000				-.0406	-.1264	-.1484	-.1562	-.1771		-.1134	-.1197					
380.000			-.0296	-.0299	-.1971	-.4665	-.2665	-.2299	-.2210							
400.000			.0147	.0936	.3822	.2446	-.2766	-.2550	-.2946							
420.000			.0280	.2726		-.1692	-.2762	-.2110								
440.000		.0434	.1218	.2466	.4665											

ORIGINAL PAGE IS OF POOR QUALITY

ALPHA(1) = -7.970 BETA(3) = 6.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	.9549	.1939	-.1471	-.1991	-.2114	-.2475		-.2536		-.2516	-.2391	-.2038	-.2015	-.2142	-.2497
40.000			-.1704	-.2017	-.2229	-.2703		-.3447		-.2755	-.2961	-.2961	-.2961	-.2961	-.2961
60.000			-.1636	-.2344	-.2497	-.2556		-.2961		-.2961	-.2961	-.2961	-.2961	-.2961	-.2961
80.000			-.1290	-.2320	-.2791	-.2741		-.3070		-.3070	-.3070	-.3070	-.3070	-.3070	-.3070
100.000			-.0636	-.2344	-.2974	-.2813		-.3070		-.4097	-.3272	-.1472	-.0514	-.0030	
120.000			-.0661	-.0687	-.2338	-.3486		-.4609		-.3228	-.3829	-.1865	-.0785	-.0260	



SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.5760
PHI															
120.000		.0061	-.1936	-.2303	-.2248			-.3302		-.6293	-.4949	-.4668	-.2212	-.1408	
140.000								-.5808							
130.000		.1742	.1264	.0341	.0092					-.6817	-.3208	-.2251	-.1615	-.1726	
131.000								-.3795							
156.000								-.0145							
162.000								-.2528							
166.000															
169.000															
174.000															
160.000	.9549	.5469	.3657	.2803	.2413	.2306	.4764	.3127							
X/LB	.6530	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.5760
PHI															
40.000		-.2623	-.3271	-.4207	-.4317	-.3181	.0000	-.2357							
70.000		-.2433	-.2971	-.3361	-.3667	-.3101	-.3064	-.2239							
90.000		-.0532	-.1636	-.1276	-.0180	-.1039	-.0902	-.1372							
105.000		-.0686	-.1465	-.1916	-.1385	-.1798	-.1532	-.1943							
110.000															
120.000		-.0687	-.0997	-.4027	-.6686	-.3293	-.2700	-.2476							
135.000															
130.000		-.0682	.0055	.3420	.2161	-.4313	-.3635	-.3440							
165.000		-.0433													
160.000		-.0319	.0442	.1774	.3535										

ALPHA(2) = -4.050 BETA(1) = -6.030

SECTION (3) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.5760
PHI															
20.000		1.0080	.3198	-.0472	-.1439	-.1678	-.1983	-.1839							
40.000															
55.000															
70.000															
80.000															
120.000			.7607	.5497	.3362	.2127	.1594	-.0206							
140.000															
150.000															
151.000															
156.000															
162.000															

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC11-716 1A14 ORBITER SYSTEMS ORB. FUELAGE (RB1841)

ALPHA(1) = -4.038 BETA(1) = -6.030

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
165.000															
166.000															
174.000															
160.000	1.0080	.5550	.2622	.2090	.1628	.1077	.6445	.2474							
W/LB	.6530	.7500	.7610	.6250	.6020	.9250	.9630	1.0080	1.0210	1.0460					
PHI															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
175.000															

ALPHA(2) = -4.030 BETA(2) = -4.020

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
20.000															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
175.000															

ALPHA(2) = -4.030 BETA(2) = -4.020

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5780
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
160.000	1.0770	.6047	.3349	.2620	.2336	.2377	.6688	.3911							
W/LB	.6980	.7500	.7610	.6250	.6020	.9250	.9630	1.0080	1.0210	1.0460					
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															



(RB1841)

ORB. FUSELAGE

ARC11-716 1A14 01-712-312NES

ALPHAOI (3) = -4.050 BETAO (3) = .050

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB .6530 .7300 .7610 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0460

PHI

120.000	-.0105	.0234	.0551	-.2198	-.1821	-.1604	-.1757	-.1910		
133.000		.2243	-.0002	-.1890	-.1607	-.2037				
150.000	.0184	.1126	.3332	.1843	-.1688	-.1879	-.2363			
165.000	.0262		.2314		-.1056	-.2015	-.2173			
180.000	.0202	.1096	.2319	.4581						

ALPHAOI (4) = -3.990 BETAO (4) = 4.070

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0000 .0000 .0230 .0470 .0700 .1120 .1990 .1670 .1760 .2030 .2520 .3010 .3790 .4990 .5760

PHI

.000	1.0370	.3368	-.0561	-.0681	-.1629	-.2013		-.1844	-.1659	-.1536	-.1194	-.1196	-.1135	-.1384
20.000		-.0563	-.0996	-.1614	-.2013		-.2571		-.1876		-.2143	-.1882	-.1386	-.1196
40.000		.0003	-.1203	-.1611	-.1896		-.2580	-.2762	-.2740		-.3634	-.3079	-.1513	-.0633
55.000		.0436	-.1054	-.1776	-.2078		-.2741	-.3444	-.4369	-.3366	-.1748	-.0647	-.0129	-.0129
70.000		.0860	-.0825	-.1761	-.1926		-.2979	-.5260	-.4079	-.3290	-.1070	-.0807		
90.000	.1803	.0598	-.0725	-.2157	-.2068		-.5233	-.6452	-.3181	-.1798	-.0874	-.0563		
120.000		.1847	.0044	-.0548	-.0328									
140.000		.2551	.1851	.1130	.1029		-.2209							
150.000							.1827							
151.000														
156.000							.3986							
162.000														
165.000														
169.000														
174.000														
180.000	1.0370	.5596	.3479	.2676	.2267	.2366	.5733	.4206						
180.000	.6850	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460				
180.000		-.1537	-.2302	-.3332	-.3785	-.2540	.0000	-.2147						
40.000		-.1687	-.2113	-.2733	-.3454	-.2853	-.2725	-.1945						
70.000		-.1029	-.1620	-.1228	-.0075	-.0789	-.0776	-.1178						
90.000	-.0980	-.0934	-.1024	-.0707	-.1234	-.1112	-.1547							
105.000		-.0628	-.1325	-.1458	-.1828	-.1840								
110.000							-.2213							
120.000	-.0482	-.0361	-.1494	-.4232	-.2675	-.2274	-.2172	-.2098						
133.000		.4706	-.1424	-.3328	-.2707	-.2771								
150.000	-.0123	.0687	.3317	.1916	-.3082	-.2790	-.2989							
165.000	-.0016	.2359			-.2279	-.3020	-.2043							
180.000	-.0051	.0746	.2064	.4121										



DATE 08 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 OL-718-S1825 ORG. FUSELAGE (R81841)

ALPHA(2) = -3.990 BETA(5) = 8.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/L5	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI														
.000	.9268	.8603	-.1191	-.1900	-.2030	-.2434		-.2453	-.2486	-.2422	-.1990	-.1839	-.1640	-.2060
20.000			-.1417	-.1909	-.2216	-.2614		-.3329	-.2676		-.2600	-.1927	-.1207	-.0962
40.000			-.1921	-.2290	-.2464	-.2335		-.3021	-.2404	-.1935	-.1727	-.1207	-.0962	
55.000			-.1165	-.2304	-.2774	-.2653		-.3240	-.3070		-.3992	-.1640	-.0722	-.0203
70.000			-.0768	-.2243	-.2663	-.2678		-.3349	-.4945	-.3656	-.1639	-.0749	-.0345	
90.000	-.0629		-.0655	-.2166	-.3361	-.3113		-.4334	-.6406	-.4660	-.4222	-.1650	-.1072	
120.000			.0021	-.2180	-.2234	-.1996		-.4733	-.6032		-.7323	-.3411	-.1953	-.1225
140.000			.0645	.0714	-.0136	-.0220		-.4106						
150.000								-.0263						
156.000									-.3069					
162.000										-.1.1460	-.3008	-.2141	-.1444	-.1165
165.000														
169.000														
174.000														
180.000	.9986	.4480	.2770	.1937	.1607	.1815	.4430	.276	-1.4080	-.2982	-.1972	-.1346	-.1026	

W/L6 .6630 .7563 .7610 .6230 .6620 .9230 .9630 1.0020 1.0210 1.0480

PHI														
.000	-.2090	-.2918	-.3900	-.4310	-.3174	.0000	-.2361		-.1156	-.1306				
40.000	-.1836	-.2330	-.2947	-.3656	-.2960	-.2768	-.2019		.0000	.0000				
70.000	-.1090	-.2045	-.1640	-.0302	-.1762	-.0967	-.1363							
90.000	-.0913	-.1430	-.1875	-.1391	-.1796	-.1320	-.1934							
105.000			-.1349	-.2404	-.2277	-.2136	-.2004							
110.000									-.2135					
120.000	-.0842	-.1736	-.3296	-.6777	-.5774	-.2741	-.2496							
135.000			.3620	-.3637	-.3219	-.4128	-.3574							
150.000	-.0908	-.0115	.3056	.1793	-.4719	-.3616	-.3406							
165.000	-.0735		.1627		-.3613	-.4003	-.2420							
180.000	-.0724	.0075	.1361	.2361										

ALPHA(3) = -.310 BETA(1) = -6.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/L5	.0000	.0060	.0230	.0470	.0700	.1120	.1390	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI														
.000	1.0070	.3784	-.0119	-.1255	-.1546	-.1664		-.1794	-.1647	-.1488	-.1166	-.1137	-.0985	-.0624
20.000			.0666	-.0295	-.0965	-.1414		-.2153	-.1370					
40.000			.3356	.0919	.0057	-.0423		-.1888	-.1293	-.1288	-.0931	-.0799	.0126	.0401
55.000			.9007	.2662	.1721	.0906		-.0177	-.0707					
70.000			.5560	.3369	.2136	.1337		.0017	-.1276	-.1872	-.0864	-.0273	-.0171	
90.000		.7541	.3341	.3354	.1947	.1440		-.0066	-.1619	-.1669	-.1022	-.0432	-.0145	

MRC11-716 1A14 CR-T12-S12M3 CRB. FUELLAGE (RR1841)

ALPHA(X) 3) = -.318 BETA(X) (1) = -0.040

SECTION (1) ORBITER FUELLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
120.000		.4891	.2763	.2246	.2030			.0956		-.2270	-.2347	-.3239	-.1460	-.1484	
140.000										-.3348					
150.000		.3030	.2101	.1578	.1865					-.5402	-.5145	-.2418	-.1455	-.1196	
191.000								.4761							
196.000									.1250						
182.000										-1.3100	-1.3655	-.2380	-.1464	-.1299	
169.000								.4634							
174.000						.8024									
160.000	1.0870	.4703	.1822	.1253	.1070	.1284		.1892		-1.6750	-1.3341	-.2180	-.1703	-.1210	
W/LB	.8830	.7500	.7810	.8230	.8860	.9230	.9630	1.0210	1.0490						

PHI	.0000	.1088	.3072	.4247	.3220	.0000	.2239
.0000		-1.0895	-1.1868	-1.0072	-1.2210	-1.2259	
40.000		-0.8895	-0.8845	-1.2136	-1.3921	-1.3640	-1.3171
70.000		-1.1784	-1.3253	-1.3233	-1.3229	-1.3229	-1.3229
90.000		-1.1258	-0.7008	-0.8984	-1.2773	-1.0141	-0.1681
105.000			-1.3433	-1.1122	-0.8278	-0.9931	-1.327
110.000							-2120
120.000	-1.1435	-0.8211	.3969	.1116	-0.8819	-0.6779	-1.081
135.000		.3130	-0.4478	-0.8994	-0.7000	-1.1991	-1.1991
150.000	-0.8582	.0117	.1277	.0125	.0067	-0.4449	-1.9666
165.000	-0.8502	.1002	.1002	.1053	-0.0691	-0.2689	
180.000	-0.0215	-0.0129	.1116	.2101			

ALPHA(X) 3) = -.320 BETA(X) (2) = -4.020

SECTION (1) ORBITER FUELLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
.0000	1.0760	.4334	.0245	-0.1373	-0.1213	-0.1747		-1.548		-1.484	-1.278	-0.915	-0.850	-0.993	-0.881
20.000			.0843	-0.0190	-0.0799	-0.1442		-2104		-1.364					
40.000			.2571	.0462	-0.296	-0.8691		-2068		-1.491	-1.468	-1.071	-0.927	-0.153	.0124
55.000			.3639	.1629	.0987	-0.0982		-1296		-1.498					
70.000			.4069	.2011	.0860	-0.1066		-0947		-2186	-2.291	-1.891	-0.485	-0.265	
90.000	.9884	.3748	.2086	.0702	.0330		-1.164			-2348	-2.478	-1.370	-0.642	-0.282	
120.000		.3954	.2097	.1546	.1491		.0011			-3214	-3.233	-3.006	-0.930	-0.749	
140.000										-3981					
150.000		.3107	.2234	.1706	.1606					-5716	-4.307	-1.934	-0.916	-0.635	
191.000								.8366							
196.000															
162.000							.4220								

ORIGINAL PAGE IS OF POOR QUALITY



ALPHAX 3) = -.360 BETA0 (2) = -4.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI								.4708							
105.000															
140.000															
174.000							.6316								
190.000	1.0740	.9144	2.447	.1975	.1617	.1763		.3371							
W/LB	.0000	.7500	.7610	.0230	.0420	.0230	.9430	1.0020	1.0210	1.0490					
PHI															
.000															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
190.000															

ALPHAX 3) = -.360 BETA0 (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
100.000															
140.000															
150.000															
156.000															
162.000															
168.000															
169.000															
174.000															
190.000	1.0600	.9169	.2705	.2113	.1756	.1945	.6043	.4351							
W/LB	.0000	.7300	.7610	.0230	.0420	.0230	.9430	1.0020	1.0210	1.0490					
PHI															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
100.000															
140.000															
150.000															
156.000															
162.000															
168.000															
169.000															
174.000															
190.000															

ORIGINAL PAGE IS OF POOR QUALITY

0818141)

CRS. FUELRAGE

ALPHAOX 3) = -.285 BETNO (3) = .040

SECTION (1) HORBITER FUELRAGE DEPENDONT VARIABLE CP

W/LB	.6830	.7300	.7810	.8230	.8620	.9030	1.0020	1.0110	1.0490
PH1									
.000	-.0702	-.1461	-.2304	-.3432	-.5066	.0000	.0000	-.2240	
40.000	-.1015	-.1925	-.2823	-.3835	-.5464	-.2675	-.2034		
70.000	-.1740	-.1741	-.1000	.0004	.0506	.0513	-.0946		
90.000	-.1160	-.1095	-.0640	-.0126	.0023	-.0838	-.1440		
105.000		.0002	-.0096	-.1271	-.1222	-.1640			
110.000							-.2181		
120.000	-.0811	.0124	.0607	-.1602	-.1763	-.1543	-.1619		
135.000		.4396	-.0115	-.1907	-.1563	-.1943			
150.000	-.0123	.0609	.2979	.1397	-.1937	-.2490			
165.000	-.0096	.2154							
180.000	-.0578	.0773	.1939	.4095					

ALPHAOX 3) = -.285 BETNO (4) = 4.000

SECTION (1) HORBITER FUELRAGE DEPENDONT VARIABLE CP

W/LB	.0000	.0090	.0230	.0410	.0700	.1120	.1590	.1870	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PH1															
.000	1.0990	.3678	-.0096	-.0721	-.1435	-.1908		-.1663	-.1527	-.1452	-.1122	-.1076	-.0919	-.1068	
20.000		-.0137	-.0900	-.1447	-.1676		-.2403		-.1773						
40.000		.0200	-.1113	-.1476	-.1770		-.2461		-.2032	-.1927	-.1390	-.1079	-.0901	-.0482	
55.000		.0470	-.1594	-.1740	-.1940		-.2722		-.2669						
70.000		.0761	-.0909	-.1765	-.1830		-.2643		-.3592	-.3181	-.1679	-.0616	-.0414		
90.000		.1542	.0675	-.0729	-.1765	-.1935	-.3191		-.4249	-.3348	-.1714	-.0822	-.0336		
100.000		.1500	-.0233	-.0743	-.0925		-.2751		-.3222	-.4061	-.3336	-.0834	-.0310		
140.000		.1946	.1279	.0995	.0644				-.2624						
150.000								-.2338	-.0932	-.3492	-.1935	-.0931	-.0369		
171.000							.1997								
184.000								-.1766							
182.000									-.12250	-.2643	-.1791	-.0932	-.0630		
165.000							.3987								
169.000															
174.000						.5359									
160.000							.3717								
W/LB	.6830	.7300	.7810	.8230	.8620	.9030	.9430	1.0020	1.0210	1.0490					

W/LB	.6830	.7300	.7810	.8230	.8620	.9030	.9430	1.0020	1.0210	1.0490
PH1										
.000	-.1134	-.1799	-.3026	-.4031	-.2532	.0000	-.2160		-.0997	-.1225
40.000	-.1287	-.1603	-.2491	-.3437	-.2829	-.2637	-.1690		.0000	.0000
70.000	-.1697	-.1609	-.1441	-.0296	-.0469	-.0790	-.1191			
90.000	-.1134	-.1321	-.1203	-.0737	-.1240	-.1142	-.1603			
105.000		-.0600	-.1634	-.1769	-.1663	-.1642				
110.000							-.2306			



ALPHAX 4) = 4.130 BETAO (3) = .060

ARC11-710 1A14 01-112-81285 CRB. FURBLAGE

0810411

SECTION (1)-CRIBTER FURBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2320	.3010	.3790	.4090	.5760
PWT															
160.000															
169.000															
174.000															
180.000	1.0780	.4013	.1679	.1231	.0911	.1247	.5956	.8427		-1.7930	-2.2111	-1.8598	-0.6683	-0.0957	
X/LB	.6930	.7920	.7810	.6230	.6660	.6637	.6690	1.0020	1.0210	1.0460					

PWT	.000	.0174	.0304	.2200	.3390	.2159	.0300	.2063		.0614	.1024				
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHAX 4) = 4.150 BETAO (4) = 4.090

SECTION (1)-CRIBTER FURBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4090	.5760
PWT															
50.000															
60.000															
65.000															
70.000															
90.000															
100.000															
140.000															
150.000															
151.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0410	.3939	.1680	.1105	.0724	.1091	.4640	.3070		-1.8700	-3.1511	-1.8022	-1.0353	-0.0715	
X/LB	.6890	.7920	.7810	.6230	.6660	.6250	.6630	1.0020	1.0210	1.0460					

(R01041)

CRG. FUELAGE

ARC11-716 1A14 01-712-912625

ALPHAOX 4) = 4.110 BETAO (5) = 0.150

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.6880	.7500	.7810	.8250	.8620	.9250	.9650	1.0020	1.0210	1.0480
PHI										
120.000	-.1053	-.0820	-.1702	-.4637	-.3087	-.2419	-.2176	-.2100		
135.000	.2441	-.2020	-.4326	-.3419	-.3007					
150.000	-.0850	-.0255	.2002	.1074	-.5050	-.3615	-.3292			
165.000	-.0847	.1243		-.4656	-.4130	-.2443				
180.000	-.1134	-.0397	.0810	.1838						

ALPHAOX 5) = 7.980 BETAO (1) = -0.000

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.3760
PHI															
.000	.9409	.4939	.0378	-.1154	-.1428	-.1654		-.1432		-.1299	-.1186	-.0763	-.0637	-.0136	.0062
20.000		.1591	.0096	-.0771	-.1214		-.1900		-.1035						
40.000		.4421	.1717	.0750	.0105		-.1096		-.0596		-.0618	-.0340	-.0164	.0771	.1276
60.000		.5842	.3451	.2263	.1312		.0091		-.0364						
80.000		.5546	.3469	.2107	.1349		.0205		-.1177		-.2008	-.1304	-.0740	-.0790	
90.000	.6879	.4671	.3051	.1690	.1281		-.0139		-.1695		-.2196	-.1960	-.1137	-.0942	
120.000		.3088	.1122	.0677	.0704		.0123		-.3111		-.4206	-.3130	-.3819	-.4021	
140.000							-.4563								
150.000		.0826	.0024	-.0271	.0309		.0343		-.7191		-.6670	-.3299	-.2238	-.2081	
151.000							.3985								
156.000									-.0092						
162.000															
165.000															
169.000															
174.000															
180.000	.9489	.2855	-.0207	-.0395	-.0459	-.0053	.5075								
X/LB	.6880	.7500	.7810	.8250	.8620	.9250	.9650	1.0020	1.0210	1.0480					

X/LB	.6880	.7500	.7810	.8250	.8620	.9250	.9650	1.0020	1.0210	1.0480
PHI										
.000	.0133	-.1095	-.2499	-.3867	-.2916	.0000	-.2032		-.0367	-.1003
40.000	.0091	.0029	-.1403	-.3450	-.3408	-.2964	-.2506		.0000	.0000
70.000	-.3232	-.1946	-.0491	.1445	.0599	.0426	-.0343			
90.000	-.2467	-.1565	.0122	.1495	.0331	.0033	-.0975			
105.000		.1184	.1501	-.0124	-.0755	-.1200				
110.000										-.2049
120.000	-.3837	-.1724	.4083	.1501	-.0831	-.0697	-.1182		-.1515	
135.000		.1332	-.2420	-.1694	-.1457	-.2126				
150.000	-.1834	-.0881	.0352	-.1113	-.0319	-.0761	-.1748			
165.000	-.1463	.0441		.0677	-.0796	-.2512				
180.000	-.1185	-.0428	.0595	.0905						



ARC11-716 IA14 01+712+512+5 ORG. FUSELAGE (081841)

ALPHAO (S) = 0.000 BETAO (S) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	0.000	0.000	0.0250	0.0470	0.0700	0.1120	0.1590	0.1670	0.1760	0.2030	0.2520	0.3010	0.3750	0.4990	0.5700
PHI															
00.000	1.0000	0.4006	0.0825	-0.0553	-0.1075	-0.1933		-0.1316		-0.1123	-0.0960	-0.0555	-0.0498	-0.0062	0.0075
20.000								-0.1821		-0.0930					
40.000								-0.1449		-0.0931	-0.0973	-0.0607	-0.0481	0.0448	0.0918
55.000								-0.0823		-0.1234					
70.000								-0.0781		-0.2034	-0.2625	-0.1964	-0.0931	-0.0912	
90.000								-0.0886		-0.2565	-0.2680	-0.1755	-0.1180	-0.0912	
120.000								-0.0402		-0.3035	-0.4063	-0.4285	-0.2907	-0.2440	
140.000										-0.5091					
150.000										-0.7368	-0.5453	-0.2557	-0.1414	-0.1185	
174.000															
190.000															
196.000															
198.000															
199.000															
174.000															
190.000															

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	0.000	0.000	0.0250	0.0470	0.0700	0.1120	0.1590	0.1670	0.1760	0.2030	0.2520	0.3010	0.3750	0.4990	0.5700
PHI															
00.000	1.0000	0.3005	0.0917	0.0217	0.0007	0.0443		0.3541		-0.0536					
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
174.000															
190.000															

ALPHAO (S) = 0.000 BETAO (S) = 0.010

SECTION (3) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	0.000	0.000	0.0250	0.0470	0.0700	0.1120	0.1590	0.1670	0.1760	0.2030	0.2520	0.3010	0.3750	0.4990	0.5700
PHI															
00.000	1.0000	0.5006	0.0802	-0.0543	-0.0906	-0.1820		-0.1336		-0.1128	-0.0936	-0.0409	-0.0355	-0.0007	0.0102
20.000								-0.1878		-0.1128					
40.000								-0.1898		-0.1381	-0.1379	-0.0879	-0.0900	0.0219	0.0878
55.000								-0.1793		-0.1908					
70.000								-0.1888		-0.2886	-0.3163	-0.1881	-0.1114	-0.0937	
90.000								-0.2007		-0.3398	-0.3117	-0.1867	-0.1122	-0.0867	

ARC11-716 IA14 ORBITER PUSBLAGE

ORIG. PUSBLAGE

07010411

ALPHAOX 5) = 0.000 BETA0 (5) = .000

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
120.000			.1728	.0005	-.0300	.0020		-.1295		-.4965	-.4035	-.3963	-.1406	-.1346	
140.000										-.3726					
150.000			.1054	.0340	-.0150	.0359				-.7755	-.4532	-.2126	-.1021	-.0751	
151.000								-.1622							
154.000						.2654									
162.000							.3478			-1.3000					
165.000										-1.5060	-.3566	-.1916	-.0943	-.0751	
169.000															
174.000						.2229									
180.000	1.0000	.3092	.0725	.0406	.0260	.0676		.2937		-1.9390	-.3132	-.1724	-.0937	-.0963	
181.000															
186.000	.0000	.7800	.7010	.6200	.6600	.6200	.6000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
W/LB															

PHI															
000	.0117	-.0548	-.2010	-.3259	-.1900	.0000		-.0576	-.0615						
40.000	.0008	-.0492	-.1548	-.2942	-.2506	-.2593	-.1873	.0000	.0000						
70.000	-.3233	-.2382	-.1421	.0292	-.0360	.0262	-.0742								
80.000	-.2529	-.1696	-.0854	.0004	-.0700	-.0683	-.1212								
105.000		.0046	-.0680	-.1132	-.1426	-.1465									
110.000							-.1974								
120.000	-.1439	-.0246	.0376	-.0649	-.1638	-.1385	-.1393								
130.000			.2991	-.0691	-.1914	-.1450	-.1733								
150.000	-.0667	.0266	.2043	.0604	-.2122	-.1943	-.2077								
160.000	-.0354	.1467		-.1436	-.2235	-.1915									
168.000	-.0219	.0304	.1373	.3755											

ALPHAOX 5) = 7.670 BETA0 (4) = 0.100

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	.0002	.4164	-.0429	-.1174	-.1702	-.2136		-.2008		-.2032	-.2032	-.1987	-.1350	-.1117	-.1103
40.000			-.0639	-.1680	-.1666	-.2202		-.3026		-.2314					
50.000			-.1936	-.1937	-.2167	-.2359		-.2914		-.2806	-.2804	-.1971	-.1344	-.0616	-.0197
55.000			-.1435	-.2356	-.2870	-.2616		-.3111		-.3123					
70.000			-.1241	-.2359	-.2905	-.2520		-.3054		-.3694	-.3596	-.2119	-.1301	-.0966	
80.000	-.2008	-.1816	-.2374	-.3216	-.2605		-.3633			-.4596	-.3962	-.1935	-.1110	-.0743	
120.000			-.1439	-.2284	-.2406	-.1780		-.3760		-.6102	-.4256	-.3056	-.0640	-.0959	
140.000								-.6943							
150.000			-.0702	-.0962	-.1644	-.1154		-.6602		-.8503	-.3610	-.2186	-.1149	-.0964	
151.000															
154.000								-.0666							
162.000															
165.000															
168.000															



ARC11-716 1A14 01-712-512625 CRG. PUSBLAGE

08181842 (16 FEB 74)

REFERENCE DATA

SWP = 2.4210 88.FT. 1989P = 29.9000 INCHES
 LWP = 30.7090 INCHES 1989P = .0000 INCHES
 SWP = 30.7090 INCHES 1989P = .0000 INCHES
 SCALE = .0000 SCALE

MACH = .750 ELEVON = .000
 RUDDER = .000 SPODRK = .000

ALPHAX (1) = -7.000 BETA0 (1) = -9.000

SECTION (1) INCHES PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0280	.0470	.0700	.1120	.1670	.1760	.2050	.2320	.3010	.3790	.4950	.5760
PHI	.000	1.0610	.2876	-.0322	-.1395	-.1657	-.2175	-.2120	-.1912	-.1669	-.1304	-.1163	-.0944	-.1016
40.000			.0155	-.0208	-.1045	-.1740	-.2374	-.2374	-.1642	-.1665	-.1748	-.1258	-.0999	-.0114
50.000			.2792	.0315	-.0593	-.0963	-.2484	-.2484	-.1239	-.1239	-.1239	-.0999	-.0114	-.0033
70.000			.4762	.2456	.1348	.0266	-.0920	-.0920	-.1516	-.1775	-.0583	.0402	.0608	
90.000		.0446	.9661	.3942	.2171	.1264	-.0162	-.0176	-.1759	-.1843	-.0587	.0266	.0905	
120.000			.6917	.4552	.3921	.3341	.1776	.1776	-.1640	-.2363	-.2279	-.0034	.0267	
140.000			.9251	.4130	.3505	.3536			-.3651	-.3791	-.1550	-.0372	-.0190	
160.000							.0167	.0167						
174.000														
182.000														
185.000														
189.000														
190.000														
X/LB	.0000	.7500	.7810	.6230	.6620	.9230	.9430	1.0020	1.0210	1.0440				

PHI

.000	-.1199	-.1906	-.2940	-.3427	-.3706	.0000	-.3271		-.1540	-.1750				
40.000	-.1364	-.1809	-.1919	-.3480	-.3963	-.3922	-.3107		.0000	.0000				
70.000	.0000	-.0413	.0391	.1366	.0602	.0344	-.0726							
90.000	.0896	.0896	.1036	.1402	.0596	.0032	-.1266							
104.000		.1927	.1099	-.0040	-.0724	-.1260								
110.000							-.2405							
120.000	.0424	.1195	.4070	.1017	-.0192	-.0436	-.0966							
135.000		.9204	.1599	.0126	.0050	-.1143								
158.000	.0399	.1297	.2965	.1678	.0942	.0101	-.2038							
169.000	.0112	.2243		.1911	-.0056	-.2562								
190.000	-.0132	.0697	.2142	.3266										



ARC11-716 IA14 OI-TIE-SIDIES CRB. PURCHASE

ALPHACR 1) = -7.700 BETAO (3) = .040

SECTION (1) CRIBTER PURCHASE DEPENDENT VARIABLE CP

X/L	.0000	.0000	.0020	.0470	.0700	.1120	.1300	.1670	.1770	.2050	.2320	.3010	.3790	.4990	.5700
PM															
120.000			.0040	.0002	.1315	.1140		-.1341		-.0009	-.3709	-.3298	-.0003	-.0055	
140.000										-.4114					
150.000			.0002	.3004	.0008	.2737				-.3148	-.2038	-.1404	-.0353	.0079	
170.000								.4300		.0402					
180.000								.1926							
190.000										-1.0000	-.2102	-.1243	-.0349	.0127	
174.000							.7371	.9034							
190.000	1.1400	.7030	.1700	.0009	.3001	.3400		.5076		-1.4050	-.1995	-.1045	-.0201	.0222	

X/L .0000 .7000 .7010 .0250 .0000 .0250 .0000 1.0000 1.0010 1.0400

SECTION (2) CRIBTER PURCHASE DEPENDENT VARIABLE CP

X/L	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
PM															
40.000			-.1401	-.2330	-.3002	-.3770	-.2406	.0000	-.2998			-.1504	-.1300		
60.000			-.1906	-.2103	-.2746	-.3038	-.3197	-.3412	-.2630			.0000	.0000		
70.000			-.0300	-.0701	-.0404	.0506	.0400	-.0438	-.1004						
90.000			.0250	-.0050	-.0001	.0097	-.0722	-.0729	-.1350						
100.000				.0010	-.0001	-.1104	-.1436	-.1704							
110.000								-.2450							
120.000			.0000	.0000	.0400	-.2303	-.1043	-.1700	-.2000						
130.000					.0000	.0414	-.2716	-.1040	-.2304						
150.000			.0000	.1300	.4010	.2730	-.1421	-.1741	-.2047						
160.000			.0714	.0000	.0000	-.0000	-.0000	-.1075	-.2303						
190.000	.0727	.1304	.3004	.0017											

ALPHACR 1) = -7.700 BETAO (4) = 4.000

SECTION (3) CRIBTER PURCHASE DEPENDENT VARIABLE CP

X/L	.0000	.0000	.0000	.0020	.0470	.0700	.1120	.1300	.1670	.1770	.2050	.2320	.3010	.3790	.4990	.5700
PM																
20.000			1.1150	.0000	-.0003	-.0004	-.1000	-.2370		-.2101		-.1941	-.1771	-.1200	-.1140	-.1431
30.000					-.0303	-.0047	-.1704	-.2372		-.2904		-.2194				
40.000					.0141	-.1155	-.1091	-.2221		-.3136		-.2432	-.2016	-.1275	-.1003	-.0600
50.000					.0000	-.0000	-.1000	-.2396		-.3444		-.3037				
70.000					.1217	-.0007	-.1000	-.2117		-.3372		-.4149	-.3005	-.1259	-.0270	.0327
90.000			.0400	.1400	-.0722	-.2104	-.2203		-.4114		-.3145	-.3047	-.1900	-.0545	.0101	
120.000				.2430	.0503	-.0303	-.0321		-.3301		-.2902	-.4530	-.4062	-.1411	-.0732	
140.000									-.4530							
150.000				.2554	.2770	.1030	.1737		-.7374	-.2350	-.1716	-.0000	-.0347			
170.000									-.1190							
190.000								.2000								
194.000																
198.000																

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ARC11-716 1A14 G1-715-512825

CRS. PURCHASE

001818-21

ALPHAO 1) = -7.976 BETA0 (5) = 0.168

SECTION (1) CRITER PURCHASE DEPENDOR VARIABLE CP

W/LB	.0000	.7000	.7010	.0020	.0000	.0020	.0000	.0000	1.0000	1.0010	1.0000
PW1											
.000	-.2206	-.2004	-.2046	-.4108	-.3798	.0000	.0000	-.2913			
40.000	-.2100	-.2700	-.2420	-.4005	-.3207	-.3304	-.2309		-.1911	-.1796	
70.000	-.0804	-.1200	-.1200	-.0910	-.1454	-.1171	-.1435		.0000	.0000	
90.000	-.0070	-.1300	-.1905	-.1904	-.1920	-.1542	-.1742				
100.000		-.1126	-.2001	-.2319	-.2244	-.1991					
110.000											
120.000	-.0405	-.0002	-.0007	-.1476	-.3091	-.3019	-.2764				
130.000		.0001	-.2006	-.0021	-.4004	-.4025					
140.000	-.0002	.0005	.2046	.0006	-.5002	-.4170	-.3546				
150.000	-.0077		.2705		-.4104	-.4401	-.3431				
160.000	-.0019	.0001	.2107	.4055							

ALPHAO 2) = -4.000 BETA0 (1) = -0.000

SECTION (1) CRITER PURCHASE DEPENDOR VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1100	.1900	.1670	.1700	.2050	.2260	.3010	.3700	.4000	.5700
PW1															
.000	1.0700	.3000	-.0002	-.1102	-.1007	-.2007	-.2007	-.2004	-.1626	-.1719	-.1340	-.1176	-.0001	-.0200	
20.000		.0077	-.0034	-.1033	-.1024			-.2404	-.1579						
40.000		.0010	.0004	-.0100	-.0700			-.2307	-.1700	-.1593	-.1100	-.0001	.0001	.0302	
60.000		.0002	.2742	1.0000	.0012			-.0001	-.1130	-.2016	-.0701	.0021	.0371		
70.000		.2079	.3404	.2175	.1231			-.0007	-.1619	-.2134	-.0000	-.0140	.0316		
90.000	.0134	.0000	.3700	.2237	.1904			-.0179	-.1021	-.2130	-.3004	-.2913	-.0794	-.0400	
100.000		.0000	.2000	.2044	.2730			.1213	-.2330	-.3004	-.2913	-.0794	-.0400		
120.000									-.2007	-.4470	-.4727	-.2075	-.1023	-.0733	
130.000		.4027	.3137	.3455	.2772			.2370	-.4470	-.4727	-.2075	-.1023	-.0733		
140.000								.3793							
150.000															
160.000															
170.000															
180.000															
190.000															
200.000															

ALPHAO 3) = -1.0700 BETA0 (5) = 0.168

SECTION (1) CRITER PURCHASE DEPENDOR VARIABLE CP

W/LB	.0000	.7000	.7010	.0020	.0000	.0020	.0000	1.0000	1.0010	1.0000
PW1										
.000	-.0007	-.1200	-.2001	-.2005	-.3404	.0000	-.2070			
40.000	-.0001	-.0001	-.1021	-.3721	-.3030	-.3725	-.2970		-.1403	-.1707
70.000	-.1000	-.0044	.0121	-.1454	.0300	.0232	-.0000		.0000	.0000
90.000	-.0013	-.0000	.0003	.1302	.0006	-.0124	-.1220			
100.000		.1040	.1004	-.0004	-.0000	-.1377				



(R81942)

CR8. FUELGAZE

ARC11-716 1A14 CR-T18-S12MS

ALPHAO: E1 = -4.040 BETA0 (4) = 4.070

SECTION (1) CRIBITER FUELGAZE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1700	.2050	.2520	.3010	.3190	.4990	.5700
PWT															
120.000			.2176	.0238	-0.429	-0.0299		-2.2927							
140.000															
150.000			.2965	.2066	.1246	.1324									
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.1130	.3053	.3724	.2940	.2429	.2630	.6514	.4693							
W/LB	.6920	.7300	.7010	.6230	.6620	.9230	.9430	1.0020	1.0210	1.0490					

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1700	.2050	.2520	.3010	.3190	.4990	.5700
PWT															
.000															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000	.0016	.6894	.2395	.4213											

ALPHAO: E2 = -4.040 BETA0 (5) = 6.130

SECTION (1) CRIBITER FUELGAZE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1700	.2050	.2520	.3010	.3190	.4990	.5700
PWT															
.000															
20.000															
40.000															
55.800															
70.000															
90.000															
120.000	1.0240	.3306	-0.0223	-12.20	-1.931	-2.293									
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	.0016	.6894	.2395	.4213											

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ARC11-716 1A14 CR+T12+S12E5 CRG. PUBLAGE (R81642)

ALPHAOX 2) = -0.040 BETA0 (5) = 0.130

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1990	.1670	.1780	.2020	.3010	.3790	.4990	.5760
PHI														
165.000														
169.000														
174.000														
180.000	1.0260	.4677	.3091	.2256	.1856	.2095	.5137	.3664						
X/LB	.6530	.7300	.7610	.8250	.8420	.9250	.9630	1.0020	1.0210	1.0480				
PHI														
165.000														
169.000														
174.000														
180.000														

PHI														
.000														
40.000														
70.000														
90.000														
108.000														
110.000														
120.000														
135.000														
150.000														
165.000														
180.000														

ALPHAOX 3) = -0.360 BETA0 (1) = -0.080

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1990	.1670	.1780	.2020	.3010	.3790	.4990	.5760
PHI														
20.000														
40.000														
55.000														
70.000														
90.000														
120.000														
150.000														
174.000														
180.000														

PHI														
.000														
20.000														
40.000														
55.000														
70.000														
90.000														
120.000														
140.000														
150.000														
151.000														
156.000														
162.000														
165.000														
169.000														
174.000														
180.000														

X/LB	.6530	.7300	.7610	.8250	.8420	.9250	.9630	1.0020	1.0210	1.0480				
PHI														
20.000														
40.000														
55.000														
70.000														
90.000														
120.000														
140.000														
150.000														
151.000														
156.000														
162.000														
165.000														
169.000														
174.000														
180.000														



DATE OF DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 01-712-312625 CRG. FURSLAGE (881842)

ALPHA (1) = -.260 BETA (1) = -0.000

SECTION (1) INJECTOR FURSLAGE DEPENDENT VARIABLE CP

V/LB	.6250	.7500	.7610	.8250	.8650	.9250	.9650	1.0050	1.0210	1.0400
PWT										
000	-.0846	-.0846	-.2537	-.3854	-.5251	.0000	.0000	-.2740	-.1345	-.1554
40.000	-.0025	-.0270	-.1348	-.3594	-.5703	-.3451	-.2906	.0000	.0000	.0000
70.000	-.2070	-.1466	-.0229	.1370	.0447	.0343	-.0582			
90.000	-.1482	-.1000	.0432	.1374	.0185	.0005	-.1116			
105.000		.1486	.1099	-.0237	-.0636	-.1282				
110.000							-.2312			
120.000	-.1895	-.0307	.3960	.1101	-.0361	-.0536	-.1059			
135.000				.3202	-.0273	-.0724	-.0557	-.1571		
150.000	-.1077	.0183	.1596	.0273	.0278	-.0340	-.2133			
165.000	-.0846		.1311		.1191	-.0506	-.2897			
180.000	-.0964	-.0074	.1443	.2702						

ALPHA (2) = -.340 BETA (2) = -4.010

SECTION (1) INJECTOR FURSLAGE DEPENDENT VARIABLE CP

V/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4690	.5760
PWT															
000	1.1270	.4006	.0254	-.0937	-.1223	-.1646		-.1795	-.1961	-.1463	-.0999	-.0843	-.0430	-.0350	
20.000		.1150	-.0053	-.0640	-.1462		-.2274	-.2274	-.1551	-.1674	-.1163	-.0845	.0044	.0469	
40.000			.2854	.0820	-.0110	-.0821		-.2186	-.1725	-.1674	-.1163	-.0845	.0044	.0469	
55.000			.3948	.1773	.0988	-.0117		-.1427	-.1844	-.2459	-.2792	-.1375	-.0537	-.0216	
70.000			.4361	.2117	.0695	.0201		-.1004	-.2863	-.2874	-.1327	-.0366	-.0144		
90.000		.0249	.4029	.2234	.0735	.0401		-.1237	-.3753	-.3612	-.3366	-.0932	-.0695		
120.000			.4207	.2234	.1619	.1683		.0285	-.4254	-.5499	-.4683	-.1998	-.0629	-.0397	
140.000			.3301	.2567	.1614	.2023		.1054							
150.000								.4831							
154.000								.1504							
162.000															
168.000								.5422							
169.000							.6674								
174.000								.4103							
180.000	1.1270	.9253	.2715	.2055	.1725	.1991									
V/LB	.6000	.7300	.7610	.8250	.8650	.9250	.9650	1.0050	1.0210	1.0400					
PWT															
000	-.0488	-.1279	-.2665	-.3917	-.2939	.0000	-.2069								
40.000	-.0488	-.0704	-.1725	-.3752	-.5373	-.3224	-.2003								
70.000	-.1699	-.1700	-.0706	.0717	-.0131	-.0065	-.0761								
90.000	-.1390	-.1172	-.0195	.0226	-.0417	-.0468	-.1328								
105.000		.0619	.0092	-.0872	-.1267	-.1326									
116.000															

ORIGINAL PAGE IS OF POOR QUALITY

(R81842)

CRD. PUSBLAGE

ALPHAO1 3) = -.340 BETA0 (2) = -4.010

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

Z/LB	.6888	.7800	.7810	.8230	.8620	.9230	.9430	1.0080	1.0210	1.0480
PW1										
120.000	-.0008	.0035	.2303	-.0096	-.1152	-.1064	-1.400	-1.1801		
135.000		.4596	.0141	-.1201	-.0908	-.1747				
150.000	-.0380	.0708	.2310	.1009	-.0837	-.1182	-.2367			
165.000	-.0033		.1975	-.0093	-.1356	-.2678				
180.000	-.0322	.0093	.1930	.3340						

ALPHAO1 3) = -.340 BETA0 (3) = .000

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

Z/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2820	.3010	.3790	.4990	.5780
PW1															
80.000	1.1450	.4879	.0484	-.0641	-.1108	-.1890		-.1864		-.1878	-.1426	-.0900	-.0748	-.0438	-.0405
90.000		.0836	-.0305	-.0892	-.1732		-.2361		-.1744		-.2038	-.1854	-.1253	-.0699	-.0192
100.000		.1607	-.0004	-.0775	-.1408		-.2449		-.2557		-.2557				
110.000		.2423	.0422	-.0377	-.1194		-.2312		-.3399		-.3194	-.1651	-.0681	-.0278	
120.000		.2746	.0631	-.0455	-.0699		-.2015		-.3938		-.3355	-.1732	-.0465	-.0241	
130.000		.4278	.2377	.0808	-.0404	-.0818	-.2403		-.5119		-.4125	-.3237	-.0746	-.0380	
140.000			.3127	.0933	.0874	.0752	-.1088		-.3051		-.4206	-.1829	-.0711	-.0389	
150.000			.2979	.2075	.1963	.1654		-.0186							
160.000							.3795								
170.000									.0379						
180.000										-.1390	-.3196	-.1616	-.0780	-.0483	
190.000															
200.000	1.1480	.5484	.2912	.2300	.1893	.145	.6030			-.15410	-.3487	-.1392	-.0713	-.0293	

Z/LB	.6888	.7800	.7810	.8230	.8620	.9230	.9430	1.0080	1.0210	1.0480
PW1										
40.000	-.0486	-.1168	-.2270	-.3444	-.2825	.0000	-.2301		-.1292	-.1337
50.000	-.0798	-.1023	-.1867	-.3347	-.2932	-.3133	-.2336		.0000	.0000
60.000	-.1783	-.2100	-.1248	.0047	-.0704	-.0535	-.1055			
70.000	-.1272	-.1344	-.0842	-.0398	-.1010	-.0698	-.1579			
80.000			-.0052	-.1286	-.1916	-.1537	-.1754			
90.000								-.2343		
100.000	-.0281	.0082	.0582	-.1903	-.1970	-.1649	-.1793	-.2031		
110.000			.4375	.0036	-.2066	-.1744	-.2224			
120.000	-.0174	.0706	.2935	.1547	-.2099	-.2117	-.2885			
130.000	-.0189		.2246		-.1367	-.2292	-.2238			
140.000	-.0093	.0788	.2040	.4318						



ARC11-716 IA14 OI-712-S12M2 CRG. FUELAGE (RB1242)

ALPHAO (3) = -.350 BETA0 (4) = 4.090

SECTION (1) CRIBITER FUELAGE DEPENDANT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2050	.2320	.3010	.3790	.4990	.5760
PWT	.000	1.1110	.4996	.0131	-.0694	-.1990	-.2148	-.1924	-.1793	-.1705	-.1267	-.1146	-.0790	-.0616	
20.000				.0174	-.0808	-.1437	-.2113	-.2497	-.2100	-.2323	-.2199	-.1492	-.1142	-.0469	-.0213
40.000				.0479	-.1048	-.1611	-.1951	-.2725	-.3085	-.3085	-.4114	-.3364	-.1761	-.0600	-.0299
55.000				.0766	-.1014	-.1819	-.2080	-.2907	-.4114	-.4946	-.3655	-.1751	-.0786	-.0265	
70.000				.1093	-.0637	-.1912	-.1828	-.3483	-.4946	-.6242	-.4436	-.3346	-.0611	-.0456	
90.000				.1933	-.1047	-.0654	-.1845	-.3483	-.5649	-.11630	-.3921	-.1920	-.0654	-.0375	
120.000				.1746	-.0085	-.0714	-.0375	-.2665	-.11630	-.3921	-.1920	-.0654	-.0375		
140.000				.2141	.1334	.0693	.0636	-.1712	-.1712	-.1712	-.1712	-.1712	-.1712	-.1712	-.1712
171.000								.2331	-.0679	-.0679	-.0679	-.0679	-.0679	-.0679	-.0679
194.000								.4342	-.13920	-.3917	-.1636	-.0661	-.0612		
162.000									-.13920	-.3917	-.1636	-.0661	-.0612		
169.000									-.13920	-.3917	-.1636	-.0661	-.0612		
174.000									-.13920	-.3917	-.1636	-.0661	-.0612		
160.000									-.13920	-.3917	-.1636	-.0661	-.0612		

ALPHAO (3) = -.340 BETA0 (3) = 8.160

SECTION (1) CRIBITER FUELAGE DEPENDANT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2050	.2320	.3010	.3790	.4990	.5760
PWT	.000	1.0676	.3792	-.0816	-.1204	-.1934	-.2624	-.2536	-.2645	-.2312	-.2022	-.1820	-.1548	-.1319	
20.000				-.0800	-.1742	-.2140	-.2703	-.3316	-.2949	-.2971	-.2962	-.2140	-.1809	-.0960	-.0322
40.000				-.1110	-.2105	-.2474	-.2705	-.3261	-.2971	-.2962	-.2140	-.1809	-.0960	-.0322	
55.000				-.0930	-.2296	-.2665	-.2766	-.3396	-.2962	-.2962	-.2140	-.1809	-.0960	-.0322	
70.000				-.0803	-.2219	-.2671	-.2671	-.3645	-.2962	-.2962	-.2140	-.1809	-.0960	-.0322	
90.000				-.0766	-.2091	-.2497	-.2875	-.3497	-.2962	-.2962	-.2140	-.1809	-.0960	-.0322	

ARC11-716 IA14 OR-T12-3128ES CRB. FUELAGE (R01842)

ALPHAO3 = -3.40 BETAO (3) = 0.160

SECTION (1) CRIBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1990	.1670	.1790	.2050	.2520	.3010	.3790	.4990	.5760
PWT															
120.000			.0132	-.1798	-.2231	-.1720		-.4364		-.7742	-.4689	-.3658	-.1276	-.0783	
140.000										-.12900					
150.000			.0467	.0392	-.0493	-.0290				-1.4440	-.4208	-.2102	-.1401	-.1121	
171.000								.0496							
194.000															
162.000															
165.000															
169.000								.3169							
174.000						.4783									
180.000	1.0470	.4041	-.2232	.1364	.1046	.1450		.3092		-1.6020	-.3650	-.2107	-.1905	-.1207	
W/LB	.0000	.7500	.7610	.6250	.6600	.9250	.9600	1.0200	1.0210	1.0480					

SECTION (2) CRIBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1990	.1670	.1790	.2050	.2520	.3010	.3790	.4990	.5760
PWT															
120.000			-.1396	-.2180	-.3433	-.4382	-.3769	.0000	-.2717						
140.000			-.1158	-.1672	-.2543	-.3603	-.2979	-.2624	-.2023						
150.000			-.1294	-.2257	-.3271	-.4062	-.3625	-.1222	-.1369						
170.000			-.2212	-.1754	-.2195	-.1931	-.2122	-.1737	-.1909						
165.000															
169.000															
174.000															
180.000	.0000	-.0037	-.3191	-.0720	-.3701	-.2967	-.2591	-.2130	-.2213						
175.000			.3296	-.3379	-.9686	-.4303	-.3614								
190.000	-.0476	-.0022	.2935	.2136	-.6369	-.4327	-.3630								
165.000	-.0089		.1960		-.5425	-.4944	-.2695								
169.000	-.0095	-.0113	.1417	.3094											

ALPHAO4 = 4.220 BETAO (4) = -0.080

SECTION (3) CRIBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1990	.1670	.1790	.2050	.2520	.3010	.3790	.4990	.5760
PWT															
120.000			.0475	-.1073	-.1491	-.1691		-.1766		-.1593	-.1506	-.1007	-.0634	-.0187	.0103
140.000			.1543	.0047	-.0746	-.1354		-.2121		-.1299					
150.000			.4296	.1308	.0598	-.0030		-.1596		-.1050	-.1121	-.0724	-.0498	.0671	.1263
170.000			.9004	.3331	.2014	.1233		-.0065		-.0453					
165.000			.5905	.3611	.2120	.1368		.0209		-.1353	-.2263	-.1167	-.0463	-.0415	
169.000	.7584	.3248	.3402	.1778	.1436	.0061		.0061		-.1683	-.2447	-.1491	-.0620	-.0307	
180.000			.4116	.1800	.1321	.1595		.0996		-.2928	-.4536	-.4731	-.2723	-.2797	
140.000										-.3795					
190.000			.2006	.1211	.0687	.1322				-.9642	-.6731	-.2976	-.1676	-.1737	
151.000								.9115							
194.000															
162.000															



ALPHAO1 4) = 4.210 BETA0 (2) = -4.030

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400
PWT	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.000	.0000	-.0000	-.2332	-.3633	-.2941	.0000	.0000	-.2940	-.1266	-.1266
90.000	.0196	-.0099	-.1250	-.3023	-.3414	-.3040	-.2963	.0000	.0000	.0000
100.000	-.3075	-.2306	-.1028	.0767	.0010	.0121	-.0368			
105.000	-.2293	-.1826	-.0370	.0696	-.0336	-.0291	-.1137			
106.000			.0718	.0068	-.0748	-.1154	-.1361			
110.000								-.2176		
120.000	-.2048	-.0281	.2347	.0083	-.1106	-.1002	-.1337	-.1709		
130.000			.3619	-.0591	-.1408	-.1065	-.1776			
150.000	-.0696	.0279	.1931	.0397	-.1006	-.1203	-.2141			
165.000	-.0791		.1535	-.0279	-.1426	-.2483				
180.000	-.0393	.0296	.1496	.2641						

ALPHAO1 4) = 4.210 BETA0 (3) = .030

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PWT	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.000	1.1360	.3964	.0813	-.0549	-.1138	-.1961		-.1646	-.1492	-.1193	-.0682	-.0444	-.0062	-.0062	.0078
90.000			.1180	-.0157	-.0641	-.1779		-.2176	-.1529	-.1763	-.1065	-.0591	.0165	.0165	.0641
100.000			.2127	.0104	-.0687	-.1391		-.2218	-.1802	-.1763	-.1065	-.0591	.0165	.0165	.0641
105.000			.2304	.0469	-.0622	-.1159		-.2368	-.2368	-.3263	-.1806	-.0902	-.0610	-.0610	-.0610
110.000			.2996	.0581	-.0824	-.0918		-.1913	-.3246	-.3263	-.1806	-.0902	-.0610	-.0610	-.0610
120.000			.2210	.0549	-.0612	-.0708		-.2132	-.3854	-.3385	-.1907	-.0834	-.0508	-.0508	-.0508
130.000			.2458	.0175	.0144	.0503		-.0584	-.5184	-.4350	-.3362	-.0943	-.0773	-.0773	-.0773
140.000			.1937	.1129	.0987	.1077		-.0494	-.6899	-.5192	-.1942	-.0608	-.0548	-.0548	-.0548
150.000								.3680							
170.000									.0128						
182.000										-1.4230	-.4656	-.1363	-.0659	-.0576	-.0576
189.000															
174.000															
160.000															

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400
PWT	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.000	.0110	-.0763	-.1944	-.3490	-.2396	.0000	-.2472			
90.000	-.0070	-.0445	-.1916	-.3215	-.2323	-.2961	-.2284			
100.000	-.2823	-.2078	-.1304	.0054	-.0376	-.0344	-.0966			
105.000	-.2073	-.1928	-.0920	-.0299	-.0498	-.0776	-.1372			
106.000			-.0111	-.1196	-.1326	-.1482	-.1594			
110.000								-.2129		



(R0104E)

ARC11-716 1A14 OI-TIE-SIDES

CRG. FUELCLAGE

ALPHAX 4) = 4.210 BETAO (3) = .030

SECTION (1)CMBITER FUELCLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7500	.7010	.0250	.0000	.0250	.0400	1.0000	1.0210	1.0400
PWT										
120.000	-.1190	-.0050	.0500	-.1203	-.1022	-.1440	-.1900	-.1770		
135.000	.3696	-.0229	-.2011	-.1904	-.1965					
150.000	-.0530	.0432	.1041	-.2116	-.2046	-.2330				
165.000	-.0425	.1790		-.1407	-.2331	-.2075				
180.000	-.0433	.0406	.1012	.4002						

ALPHAX 4) = 4.200 BETAO (4) = 4.000

SECTION (1)CMBITER FUELCLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1900	.1070	.1700	.2050	.2500	.3010	.3790	.4990	.3700
PWT															
.000	1.0000	.9126	.0301	-.0019	-.1492	-.2005		-.1731		-.1792	-.1406	-.1000	-.0000	-.0406	-.0430
20.000		.0305	-.0743	-.1454	-.1995		-.2305		-.1025		-.2236	-.2102	-.1304	-.0403	-.0216
40.000		.0306	-.1003	-.1531	-.1936		-.2349		-.3015		-.3015				.0187
60.000		.0740	-.1008	-.1076	-.2021		-.2773		-.3963		-.3546	-.1901	-.0900	-.0602	
80.000		.0911	-.0903	-.1053	-.1075		-.3193		-.4721		-.3713	-.1906	-.0903	-.0499	
100.000	.1379	.0438	-.0832	-.2233	-.1603		-.2301		-.0337		-.4229	-.3190	-.0701	-.0473	
120.000		.1241	-.0971	-.1013	-.0445		-.0346		-.11200		-.4023	-.1929	-.0902	-.0607	
140.000		.1317	.0501	-.0042	.0411		-.1933		.2170						
160.000															
174.000															
182.000															
195.000															
199.000	1.0000	.3058	.1055	.1101	.0744	.1294		.3902		-1.4400	-.5707	-.1470	-.0013	-.0406	
194.000								.3000							
180.000															
174.000															
160.000															
140.000															
120.000															
100.000															
80.000															
60.000															
40.000															
20.000															
0.000															

SECTION (1)CMBITER FUELCLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7500	.7010	.0250	.0000	.0250	.0400	1.0000	1.0210	1.0400
PWT										
.000	-.0305	-.1232	-.2000	-.0000	-.2302	.0000	-.2330		-.1170	-.1323
40.000	-.0524	-.1134	-.2143	-.3303	-.2907	-.2719	-.1901		.0000	.0000
60.000	-.2021	-.2002	-.2073	-.0000	-.1000	-.0774	-.1140			
80.000	-.1001	-.1900	-.1043	-.1117	-.1400	-.1100	-.1023			
100.000		-.1043	-.2040	-.1030	-.1014	-.1170				
110.000										
120.000	-.0000	-.0723	-.0670	-.3077	-.2041	-.2077	-.2001		-.2270	-.2043
130.000		.4005	-.1045	-.2019	-.2304	-.2306				
140.000	-.0002	.0000	.2400	.0002	-.3301	-.3013	-.2934			
160.000	-.0002	.1700		-.2000	-.3004	-.2030				
180.000	-.0304	.0013	.1900	.2003						

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ARC11-716 IAS14 ORBIT-818888

ORBIT 71

ALPHAO 4) = 4.108 BETAO (3) = 9.100

SECTION (1) ORBITER.FURBLAGE DEPENDANT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1670	.1700	.2050	.2320	.3010	.3790	.4090	.3700
PWT															
80.000	.0000	.0000	.0000	-.0404	-.1163	-.1678	-.2433	-.2307	-.2305	-.2408	-.1906	-.1906	-.1270	-.1200	-.1200
80.000				-.0870	-.1097	-.2048	-.2501	-.3446	-.3446	-.3034	-.2500	-.2105	-.0705	-.0603	
91.000				-.1702	-.2050	-.2412	-.2664	-.3272	-.3272	-.3002	-.2500	-.1904	-.0705	-.0603	
70.000				-.1700	-.2302	-.3042	-.2787	-.3300	-.3300	-.3406	-.3004	-.2404	-.1000	-.0907	
90.000				-.0757	-.2270	-.2967	-.2642	-.3504	-.3504	-.4530	-.3604	-.1976	-.1000	-.0907	
80.000				-.1082	-.1290	-.2213	-.2674	-.4102	-.4102	-.2640	-.3783	-.1607	-.0901	-.0404	
100.000				-.0004	-.1025	-.2298	-.1682	-.3607	-.3607	-.0996	-.4470	-.3106	-.0936	-.0647	
140.000				.0077	-.0274	-.1104	-.0623	-.3715	-.3715	-.1490	-.2522	-.1096	-.1008	-.0999	
150.000								.0432	.0432						
190.000								-.2301	-.2301						
162.000								.2637	.2637						
165.000															
160.000															
174.000															
160.000															
W/LB	.0000	.2700	.1100	.0400	.0007	.0765	.4402	.2373	.2373	-.1200	-.0000	-.2006	-.1913	-.1331	
W/LB	.0000	.7000	.7000	.0200	.0000	.0000	.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	

PWT

80.000	-.0004	-.1004	-.2132	-.4146	-.3946	.0000	-.2402	-.1994	-.2005						
40.000	-.0700	-.1379	-.2000	-.3013	-.2912	-.2713	-.1614	-.1370	-.1350						
70.000	-.2318	-.0800	-.2379	-.1001	-.1006	-.1212		.0000	.0000						
90.000	-.1700	-.2127	-.2175	-.1702	-.2000	-.1907	-.1695								
100.000			-.1605	-.2753	-.2427	-.2193	-.1693								
110.000								-.1994							
120.000								-.2005							
130.000															
150.000															
160.000															
160.000															
160.000															

ALPHAO 3) = 8.078 BETAO (1) = -0.000

SECTION (1) ORBITER.FURBLAGE DEPENDANT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1670	.1700	.2050	.2320	.3010	.3790	.4090	.3700
PWT															
80.000	1.0000	.5470	.0721	-.1128	-.1547	-.1838		-.1903		-.1344	-.1245	-.0620	-.0614	.0000	.0301
40.000			.1902	.0004	-.0943	-.1305		-.1917		-.1057	-.0734	-.0627	-.0404	-.0187	.0319
91.000			.4704	.1000	.0755	.0103		.0008		-.0303	-.0027	-.0404	-.0187	.0319	.1312
70.000			.2906	.3224	.2172	.1231		.0203		-.1215	-.2317	-.1396	-.0713	-.0324	
90.000			.2910	.3224	.2076	.1344		.0203		-.1055	-.2328	-.1743	-.1126	-.0836	
100.000		.7270	.2004	.2497	.1895	.1400		.0096							



ARC11-716 IAI14 CR-112-S10NES CRB. PURCHASE (881842)

ALPHAO 10 = 0.000 BETA0 (2) = -3.000

SECTION (1) ORBITER FUELAGE DEPENDOR VARIABLE CP

1/1,3	.0000	.0000	.0250	.0410	.0700	.1150	.1500	.1670	.1700	.2050	.2350	.3010	.3700	.4000	.5700
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PWT															
140.000															
140.000															
174.000															
140.000															

1/1,3	.0000	.7000	.7010	.0250	.0400	.0250	.0400	1.0000	1.0210	1.0400					
-------	-------	-------	-------	-------	-------	-------	-------	--------	--------	--------	--	--	--	--	--

PWT															
.0000															
40.000															
70.000															
90.000															
200.000															

ALPHAO 10 = 7.010 BETA0 (3) = .000

SECTION (1) ORBITER FUELAGE DEPENDOR VARIABLE CP

1/1,3	.0000	.0000	.0250	.0410	.0700	.1150	.1500	.1670	.1700	.2050	.2350	.3010	.3700	.4000	.5700
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PWT															
.000															
80.000															
40.000															
90.000															
70.000															
90.000															
100.000															

ALPHAO 10 = 7.010 BETA0 (3) = .000

SECTION (1) ORBITER FUELAGE DEPENDOR VARIABLE CP

1/1,3	.0000	.0000	.0250	.0410	.0700	.1150	.1500	.1670	.1700	.2050	.2350	.3010	.3700	.4000	.5700
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

PWT															
140.000															
140.000															
174.000															
140.000															



081842)

CRG. FUELAGE

ALPHA IN = 7.289 BETA (A) = 4.130

SECTION (1) CRATER FUELAGE DEPENDENT VARIABLE CP

W/L	.0000	.7500	.7510	.8228	.8400	.9000	.9200	.9400	1.0000	1.0210	1.0400
128.000	-.1582	-.0803	-.0798	-.2890	-.2402	-.1976	-.1636	-.1036	-.1000		
134.000	-.0200	-.0200	-.1045	-.2033	-.2276	-.2415					
139.000	-.0794	-.0095	-.2234	-.0710	-.3701	-.3035	-.2502				
148.000	-.0215	-.1367		-.3033	-.3847	-.2078					
149.000	-.0096	-.0007	-.1109	.2412							

ALPHA IN = 7.289 BETA (B) = 9.280

SECTION (1) CRATER FUELAGE DEPENDENT VARIABLE CP

W/L	.0000	.0000	.0000	.0410	.0700	.1125	.1590	.1870	.2030	.2100	.2100	.3790	.4000	.5700
148.000	.0017	.4000	-.0005	-.1125	-.1006	-.2004	-.2004	-.2004	-.2132	-.2176	-.1757	-.1200	-.0992	-.0874
149.000	-.0774	-.1671	-.1910	-.2590	-.2145				-.2394					
150.000	-.1132	-.2047	-.2332	-.2495	-.2075				-.2775	-.2607	-.2076	-.1283	-.0499	-.0079
151.000	-.1809	-.2402	-.2011	-.2702	-.2026				-.2094					
152.000	-.0907	-.2300	-.2303	-.2323	-.2406				-.2884	-.3702	-.2199	-.1887	-.0448	
153.000	-.1893	-.2529	-.2375	-.2510	-.2491				-.2451	-.3741	-.2036	-.1032	-.0067	
154.000	-.1100	-.2321	-.2470	-.1873	-.2447				-.2827	-.4706	-.2933	-.0421	-.0674	
155.000									-1.1700					
156.000	-.0206	-.0007	-.1010	-.0040					-1.2900	-.0125	-.2003	-.0400	-.0084	
157.000									-.3704					
158.000									-.0883					
159.000									-.2817					
160.000									-1.2700	-.2434	-.2212	-.1142	-.1307	
161.000														
162.000	.0017	.1000	-.0670	-.0400	-.0225	.0100	.0200	.2100	-.0400	-.7931	-.2306	-.1445	-.1296	
163.000	.0000	.7000	.2010	.0200	.0000	.0000	.0000	1.0000	1.0210	1.0400				

PM

W/L	.0000	.7500	.7510	.8228	.8400	.9000	.9200	.9400	1.0000	1.0210	1.0400
163.000	-.0717	-.1800	-.2000	-.4102	-.3484	.0000	-.2442		-.1193	-.1175	
164.000	-.0811	-.0000	-.2010	-.3442	-.2706	-.2703	-.1600		.0000	.0000	
165.000	-.2017	-.2167	-.2497	-.1802	-.1810	-.0000	-.1232				
166.000	-.2834	-.2413	-.2122	-.1506	-.1796	-.1403	-.1602				
167.000			-.1912	-.2290	-.2299	-.1999	-.1875				
168.000	-.1205	-.1800	-.0773	-.0807	-.2116	-.2316	-.2116		-.2191		
169.000			.7937	-.1936	-.0200	-.2073	-.2741				
170.000	-.1807	-.0414	-.1432	-.0277	-.2605	-.3794	-.2819				
171.000	-.1200		.0732								
172.000	-.1245	-.0401	.0001	-.1149							

ORIGINAL PAGE IS OF HIGH QUALITY



ARC11-716 1A14 01-112-312M25

CRG. FUSELAGE

(RB1843) (15 FEB 74)

REFERENCE DATA

REF = 2.4210 94. FT. WARP = 29.5000 INCHES
 LWRP = 36.7090 INCHES YWRP = .0000 INCHES
 BRP = 36.7090 INCHES ZWRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = .650 ELEVON = .000
 RUDDER = .000 SPOILER = .000

ALPHAO (1) = -7.000 BETAO (1) = -8.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2050	.2380	.3010	.3790	.4990	.9190
PHI	1.1140	.4002	.0221	-.0947	-.1367	-.2091	-.2435	-.2625	-.1901	-.2215	-.2027	-.1487	-.1126	-.0470	-.0690
20.000	.0753	-.0149	-.0782	-.1619	-.2625	-.2692	-.2692	-.2692	-.2301	-.2301	-.2056	-.1378	-.0906	.0132	.0373
40.000	.3202	.2805	.1925	.0419	-.1061	-.0167	-.0167	-.0167	-.1626	-.1626	-.2019	-.0546	.0464	.0971	.0971
55.000	.8233	.3613	.2361	.1447	-.0051	-.0051	-.0051	-.0051	-.1883	-.1883	-.2331	-.0793	.0296	.0930	.0930
70.000	.8777	.6448	.4372	.2800	.1927	.2116	.2116	.2116	-.1772	-.1772	-.4938	-.2305	-.0008	.0369	.0369
90.000	.5944	.4411	.3733	.3671	.3498	.3498	.3498	.3498	.3498	.3498	.3498	.3498	.3498	.3498	.3498
120.000	.6675	.6675	.6675	.6675	.6675	.6675	.6675	.6675	.6675	.6675	.6675	.6675	.6675	.6675	.6675
131.000	.6640	.6640	.6640	.6640	.6640	.6640	.6640	.6640	.6640	.6640	.6640	.6640	.6640	.6640	.6640
150.000	.8001	.8001	.8001	.8001	.8001	.8001	.8001	.8001	.8001	.8001	.8001	.8001	.8001	.8001	.8001
162.000	.4547	.4547	.4547	.4547	.4547	.4547	.4547	.4547	.4547	.4547	.4547	.4547	.4547	.4547	.4547
169.000	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840
169.000	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840
174.000	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840
180.000	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840	.6840

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6580	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI	-.0829	-.1267	-.2475	-.3363	-.4116	.0000	-.3921	-.2127	-.2219	-.2219
40.000	-.1090	-.0688	-.1051	-.2931	-.4116	-.3667	-.3502	.0000	.0000	.0000
70.000	.0186	-.0363	.0476	1.730	.0619	.0464	-.0626	.0000	.0000	.0000
90.000	.0476	.0416	.1291	.1682	.0432	.0214	-.1091	.0000	.0000	.0000
105.000	.2170	.1096	.0096	-.0390	-.1203	-.2535	-.2535	-.2535	-.2535	-.2535
110.000	.0446	.1314	.4316	.1100	-.0095	-.0247	-.1001	-.1637	-.1637	-.1637
120.000	.0427	.1468	.3923	.2031	.1199	.0392	-.2195	-.2195	-.2195	-.2195
135.000	.0188	.0188	.2678	.2678	.2678	.2678	.2678	.2678	.2678	.2678
150.000	-.0057	.0940	.2630	.4290	.4290	.4290	.4290	.4290	.4290	.4290
160.000	-.0057	.0940	.2630	.4290	.4290	.4290	.4290	.4290	.4290	.4290

ORIGINAL PAGE IS
 ? QUALITY

MRC11-716 IAI44 CR-TIEMENES CRB. FUSELAGE (RB1843)

ALPHAO(1) = -7.700 BETAO (2) = -4.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0100	.0200	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1790	.4459	.0510	-0.0490	-1.1103	-2.1190		-2.659		-2.260	-1.190	-1.148	-0.642	-0.537	-0.0820
20.000		.0965	-0.0052	-0.0675	-1.913		-3.160		-2.194		-2.777	-1.263	-0.644	-0.0001	.0117
40.000		.2632	.0451	-0.0553	-1.442		-3.047		-2.783		-3.008	-2.914	-0.799	.0156	.0769
59.000		.3946	.1679	0.0490	-0.645		-2.156		-3.134		-3.134	-2.983	-0.986	-0.011	.0679
70.000		.4614	.2409	1.004	.0166		-1.396		-2.401		-3.145	-2.606	-2.657	-0.106	.0416
90.000	.7161	.5064	.2969	.1967	.0582		.0750		-2.501		-2.706	-1.109	-0.160	.0501	
120.000		.5670	.3266	.2666					.2590						
140.000		.5921	.4261	.3203	.3296				.6023						
150.000									.3355						
176.000															
162.000															
169.000															
174.000															
160.000	1.1790	.7661	.4762	.4032	.3546	.3637	.6141	.6839							
W/LB	.6630	.7300	.7610	.6250	.6620	.6230	.9430	1.0020	1.0210	1.0490					
PHI															
.000	-1.119	-1.769	-2.745	-3.266	-3.366	.0000	-3.921		-2.066	-2.012					
40.000		-1.988	-1.968	-3.294	-3.653	-3.934	-3.661		.0000	.0000					
70.000		.0150	-0.0362	.0145	.1072	.0013	-0.065	-0.971							
90.000		.0415	.0226	.0820	.0827	-0.0264	-0.349	-1.357							
109.000			.1397	-0.0050	-0.0695	-1.037	-1.955								
110.000															
120.000		.0665	.1241	.2726	-0.0250	-1.056	-1.993								
136.000			.6239	1.192	-0.607	-0.622	-1.797								
150.000		.0769	1.604	.3973	2.653	.0005	-0.960	-2.755							
166.000		.0782	.3241		.6832	-0.632	-3.164								
160.000	.0682	.1540	.3109	.4953											

ALPHAO(1) = -7.700 BETAO (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1660	.4422	.0574	-0.0416	-1.233	-2.261		-2.723		-2.627	-1.903	-0.933	-0.640	-0.405	-0.0631
20.000		.0706	-0.0316	-0.0943	-2.293		-3.165		-2.633						
40.000		.1604	-0.164	-1.026	-2.143		-3.234		-3.078		-2.276	-1.160	-0.767	-0.156	-0.0073
59.000		.2561	.0261	-0.692	-1.732		-3.079		-3.990						
78.000		.3253	.0896	-0.093	-1.084		-2.562		-4.282		-3.799	-0.921	-0.024	.0611	
90.000	.8231	.3215	.1367	-0.0304	-0.676		-2.669		-4.627		-6.382	-1.079	-0.144	.0496	



MRC11-716 1A14 OR-112-912MCS CRB. FUSELAGE (R81843)

ALPHAX (1) = -7.760 BETA0 (3) = .040

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2500	.3010	.3790	.4990	.5760
PWT														
120.000	.4000	.2314	.1956	.1472	-.0632				-.3264	-.7000	-.3162	-.0542	.0096	
140.000									-.4853					
150.000	.4026	.3050	.3035	.3015	.1303				-.9062	-.4310	-.1140	-.0260	.0219	
151.000					.4939									
156.000														
162.000														
169.000					.6436									
174.000					.7904									
180.000	1.1900	.7026	.5000	.4100	.3422	.3731								
W/LB	.6980	.7800	.7610	.6250	.6980	.9250	.9630	1.0020	1.0210	1.0480				

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2500	.3010	.3790	.4990	.5760
PWT														
40.000	-.1148	-.1834	-.2678	-.3132	-.2420	.0000	-.3230							
70.000	-.1768	-.1634	-.2200	-.3457	-.3247	-.3710	-.2916							
90.000	.0144	-.0508	-.0478	.0342	.0683	-.0283	-.1235							
105.000	.0385	.0030	-.0095	-.0135	-.0961	-.0931	-.1685							
110.000	.0401	-.1137	-.1390	-.1546	-.1878									
120.000	.0288	.0846	.0845	-.2886	-.2179	-.1942	-.2291							
135.000	.6075	.0872	-.2118	-.2040	-.2765									
150.000	.0815	.1792	.4284	.3033	-.1579	-.1767	-.3272							
165.000	.0819	.5484		-.0768	-.1775	-.3089								
180.000	.0888	.1760	.3275	.5464										

ALPHAX (1) = -7.720 BETA0 (4) = 4.110

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2500	.3010	.3790	.4990	.5760
PWT														
80.000	1.1680	.4111	.0148	-.0488	-.1503	-.2444								
90.000	.0198	-.0820	-.1491	-.2436										
100.000	.0380	-.0900	-.1682	-.2240										
110.000	.1122	-.0884	-.1687	-.2326										
120.000	.1701	-.0511	-.1699	-.2012										
130.000	.3088	.2505	-.0137	-.1871	-.2046									
140.000	.2318	.0887	.0005	.0077										
150.000	.3983	.3045	.2278	.2147										
151.000														
156.000														
162.000														

(R01843)

CRS. FUELAGE

MRC11-716 IA14 O-TIE-818285

ALPHAO(1) = -7.020 BETA0 (4) = 4.110

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2920	.3010	.3790	.4990	.5760
PWL															
105.000															
106.000															
174.000															
190.000															
Y/LB	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
PWL															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHAO(1) = -7.000 BETA0 (5) = 6.170

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2920	.3010	.3790	.4990	.5760
PWL															
85.000															
90.000															
95.000															
70.000															
90.000															
120.000															
140.000															
150.000															
155.000															
165.000															
169.000															
174.000															
190.000															
Y/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1990	.1670	.1760	.2090	.2920	.3010	.3790	.4990	.5760



(R81843)

ORB. PUBLAGE

MRC11-716 IAI16 01+112+312M25

ALPHAO (2) = -3.000 BETA0 (1) = -0.000

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.7000	.7010	.0200	.0000	.9200	.9000	1.0000	1.0210	1.0400
PWT										
100.000	-.0779	.0534	.4053	.1000	-.0328	-.0348	-.1024	-.1978		
125.000			.4012	.0036	-.0152	-.0096	-.1347			
150.000	-.0409	.0796	.2534	.1275	.0740	.0087	-.2239			
165.000	-.0015		.2117		.1007	-.0036	-.3407			
180.000	-.0516	.0409	.2193	.3046						

ALPHAO (2) = -3.000 BETA0 (2) = -4.000

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1990	.1670	.1700	.2000	.2000	.3010	.3790	.4000	.5700
PWT															
0.000	1.1610	.4041	.0026	-.0709	-.1193	-.2136		-.2431		-.2219	-.1907	-.1107	-.0648	-.0328	-.0273
20.000			.1245	-.0055	-.0702	-.1875		-.2369		-.2083					
40.000			.2057	.0503	-.0243	-.1243		-.2097		-.2506	-.2292	-.1313	-.0648	.0115	.0456
50.000			.4138	.1782	.0013	-.0446		-.1844		-.2465					
70.000			.4702	.2349	.0932	.0241		-.1167		-.2782	-.3964	-.1078	-.0174	.0373	
90.000		.0021	.4601	.2720	.1215	.0926		-.1183		-.2920	-.6084	-.1203	-.0294	.0340	
120.000		.3007	.2607	.2667	.2264	.2306		.0031		-.3032	-.6920	-.2704	-.0397	-.0015	
140.000		.4441	.3379	.732	.2091				.2202	-.3535	-1.0490	-.1149	-.0478	-.0148	
150.000								.5003							
160.000									.2935						
180.000										-1.0220	-.6443	-.1056	-.0559	-.0234	
190.000								.6474							
200.000							.7700								
240.000	1.1610	.0000	.3777	.3011	.2002	.2225		.5025		-1.1190	-.6239	-.0937	-.0512	-.0211	
Y/LB	.0000	.7000	.7010	.0200	.0000	.9200	.9000	1.0000	1.0210	1.0400					

PWT

0.000	-.0446	-.0078	-.2001	-.3001	-.3848	.0000	-.3165			-.1910	-.0000				
40.000	-.0073	-.0407	-.1000	-.2392	-.3422	-.3716	-.2004			.0000	.0000				
70.000	-.0002	-.1326	-.0455	.0771	.0200	-.0102	-.0828								
90.000	-.0045	-.0000	.0111	.0009	-.0402	-.0425	-.1411								
105.000			.1053	-.0202	-.0934	-.1153	-.1614								
110.000								-.2002							
120.000	-.0166	.0001	.2700	-.0294	-.1201	-.1025	-.1542	-.2179							
130.000			.3003	.0048	-.0004	-.0772	-.1637								
150.000	.0000	.1100	.3250	.1964	-.0502	-.0648	-.2772								
160.000	.0000		.2007		.0339	-.0922	-.3023								
180.000	.0101	.1000	.2376	.4057											



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 01-712-31262 CRB. FUSELAGE (R01043)

ALPHAO1 E1 = -3.646 BETA0 (3) = .050

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2920	.3010	.3790	.4990	.5760
PMT	.000	1.1960	.5019	.0438	-.1695	-.1500	-.2437	-.2494	-.2476	-.2456	-.1969	-.1027	-.0945	-.0286	-.0361
20.000				.0957	-.0349	-.0956	-.2311	-.2929	-.3065	-.2811	-.2575	-.1241	-.0729	-.0032	.0206
40.000				.1966	-.0053	-.0950	-.3026	-.2797	-.3308	-.3097	-.2501	-.1151	-.0296	.0247	
60.000				.2972	.0493	-.0579	-.1990	-.2379	-.3497	-.3322	-.2607	-.1146	-.0302	.0244	
80.000				.3166	.0950	-.0466	-.1022	-.2542	-.3534	-.3324	-.2797	-.2703	-.0425	-.0001	
100.000				.4627	.3263	.1201	-.0210	-.0650	-.7917	-.9366	-.6299	-.1122	-.0410	-.0029	
140.000				.3635	.3021	.2225	.2393	.1037							
174.000								.4766							
190.000								.1991							
195.000															
199.000															
199.000															
199.000															
199.000															
W/LB	.0000	.7300	.7610	.6250	.6650	.9250	.9650	1.0020	1.0210	1.0480					
PMT	.000	-.0572	-.1217	-.2170	-.3293	-.2365	.0000	-.3013	-.1066	-.1695					
40.000				-.0892	-.1071	-.1696	-.3220	-.3077	-.3442	-.2721					
70.000				-.0796	-.1355	-.1088	-.0003	-.0825	-.0571	-.1203					
90.000				-.0425	-.0741	-.0602	-.0458	-.1164	-.0929	-.1695					
109.000					.0137	-.1408	-.1394	-.1367	-.1853	-.2707					
110.000										-.2328					
120.000					.0004	.0390	.0625	-.2244	-.2194	-.1629	-.2096				
135.000						.5376	.0561	-.2253	-.1925	-.2329					
150.000					.0270	.1211	.3631	.2279	-.1926	-.2011	-.3161				
165.000					.0276	.2954		-.1206	-.2095	-.2979					
190.000					.0320	.1192	.2661	.4672							

ALPHAO2 E1 = -3.646 BETA0 (4) = 4.090

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2920	.3010	.3790	.4990	.5760
PMT	.000	1.1960	.4606	.0224	-.0554	-.1543	-.2490	-.2306	-.2466	-.2229	-.2032	-.1436	-.1071	-.0709	-.0755
20.000				.0260	-.0703	-.1537	-.2484	-.3095	-.3095	-.2666	-.2070	-.1401	-.1063	-.0360	-.0164
40.000				.0965	-.0991	-.1750	-.2185	-.3126	-.3126	-.2629	-.2070	-.1401	-.1063	-.0360	-.0164
60.000				.1131	-.0903	-.1636	-.2175	-.3435	-.3435	-.2629	-.2070	-.1401	-.1063	-.0360	-.0164
80.000				.1546	-.0904	-.1634	-.1864	-.3226	-.3226	-.2629	-.2070	-.1401	-.1063	-.0360	-.0164
90.000				.2666	.1738	.0317	-.2027	-.1696	-.3670	-.2629	-.2032	-.1436	-.1071	-.0709	-.0755

081843)

ORG. PUBLAGE

ARC11-716 1A14 01-1121-31265

ALPHAO 2) = -3.000 BETA0 (2) = 0.150

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1070	.1700	.2050	.2920	.3010	.3790	.4990	.5700
PWE															
165.000															
169.000															
174.000															
180.000															
W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1070	.1700	.2050	.2920	.3010	.3790	.4990	.5700
PWE															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHAO 3) = -.340 BETA0 (1) = -8.000

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1070	.1700	.2050	.2920	.3010	.3790	.4990	.5700
PWE															
80.000															
95.000															
105.000															
120.000															
140.000															
150.000															
159.000															
165.000															
174.000															
180.000															
W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1070	.1700	.2050	.2920	.3010	.3790	.4990	.5700
PWE															
80.000															
95.000															
105.000															
120.000															
140.000															
150.000															
159.000															
165.000															
174.000															
180.000															

ORIGINAL PAGE IS OF POOR QUALITY

ALPHA 3) = -.260 BETA (1) = -6.000

SECTION (1) ORBITER FUELRANGE DEPENDENT VARIABLE CP

W/LB	.0000	.7500	.7610	.8200	.8600	.9200	.9600	1.0200	1.0210	1.0400
PWT										
.000	.0025	-.0498	-1.1795	-.3064	-.3635	.0000	-.3232		-.1827	-.1708
40.000	.0396	.0395	-.0261	-.2708	-.3469	-.3216	-.3054		.0000	.0000
70.000	-.1791	-.2192	-.0241	1.5446	.0472	.0399	-.0444			
90.000	-.1688	-1.488	.0485	1.461	.0303	.0234	-.0961			
100.000		1.023	1.003	-.0129	-.0353	-.1207				
110.000										-.2346
120.000	-.2003	-.0596	.3691	1.041	-.0435	-.0336	-.0948			-.1814
130.000		.3648	.0110	-.0283	-.0314	-.1479				
140.000	-.1194	.0224	1.021	.0563	0.464	-.0082	-.2249			
160.000	-.1096		1.641	1.365	-.0182	-.3206				
180.000	-.0816	.0143	1.635	.3236						

ALPHA 3) = -.380 BETA (2) = -5.040

SECTION (1) ORBITER FUELRANGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0200	.0470	.0700	.1150	.1590	.1870	.1760	.2050	.2260	.3010	.3790	.4990	.5760
PWT															
.000	1.1616	.9082	.0825	-.0568	-.1113	-.1608		-.1933		-.1893	-.1791	-.1103	-.0779	-.0163	.0044
20.000		.1328	.0124	-.0371	-.1413		-.2358			-.1825		-.1233	-.0688	.0363	.0922
40.000		.3544	.0837	.0158	-.0896		-.2161			-.1992	-.1968	-.1233	-.0688	.0363	.0922
50.000		.4687	.2296	.1137	.0320		-.1087			-.1701					
70.000		.5084	.2792	.1377	.0620		-.0950			-.2131	-.3091	-.1416	-.0381	.0023	
90.000	.7100	.4918	.2417	1.287	.0960		-.0598			-.2332	-.4817	-.1964	-.0513	.0023	
120.000		.4697	.2293	1.936	.2139		-.1166			-.3046	-.6808	-.3494	-.0993	-.0713	
140.000		.3930	.2328	.2007	.2403					-.3163					
150.000										-.3378	-1.0790	-.2000	-.0506	-.0582	
160.000															
170.000															
180.000															
190.000	1.1616	.9761	.2792	.2123	.1768	.2183		.5750	.2714						
200.000	.6888	.7808	.7610	.8250	.8600	.9200	.9600	.9330	1.0210	1.0400					
PWT															
.000	.0688	-.8478	-.2017	-.3482	-.3473	.0000	-.3053								
40.000	.0049	.6049	-.0793	-.2974	-.3129	-.3496	-.2683								
70.000	-.1999	-.8483	-.0789	.0915	.0027	.0167	-.0431								
90.000	-.1478	-.1378	-.0045	.0756	-.0313	-.0199	-.1802								
100.000		.1078	-.0086	-.0708	-.0934	-.1391									
110.000															
120.000															
130.000															
140.000															
150.000															
160.000															
170.000															
180.000															
190.000															
200.000															



ARC11-716 1A14 01-718-912MS

ORIG. PUBLBLAZE

(R161843)

ALPHAO1 30 = -.348 SETAO (4) = 4.000

SECTION (1) -ORBITER PUBLBLAZE DEPENDENT VARIABLE CP

Z/LB	.0000	.0000	.0200	.0470	.0700	.1100	.1500	.1670	.1700	.2000	.2170	.3010	.3700	.4900	.5700
PWT															
88.000	1.1540	.9112	.6499	-.0084	-1.602	-.2125		-.1045	-.1903	-.1027	-.1310	-.0961	-.0448	-.0444	
89.000		.0921	-.0645	-1.404	-.2113		-.2060	-.2246							
90.000		.0008	-.0026	-1.959	-.1020		-.2072	-.2746	-.2624	-.1444	-.0965	-.0226	-.0226	.0174	
95.000		.1153	-.0948	-1.791	-1.022		-.2943	-.3249							
98.000		.1471	-.0816	-1.047	-1.040		-.2755	-.4125	-.9671	-1.409	-.0908	-.0125			
99.000		.0421	.1345	-.0377	-1.735	-1.304	-.3155	-.4936	-.0180	-1.293	-.0368	-.0096			
100.000		.2007	.0105	-.0225	.0110		-.1775	-.1707	-.7636	-.2937	-.0576	-.0311			
140.000								-.6965							
150.000								-.0402	-.1022	.0965	.1267				
170.000									-.0260						
174.000								.3243							
178.000									.0376						
182.000										-.10270	-.7525	-.2914	-.0301	-.0426	
186.000															
190.000															
194.000															
198.000															
200.000															
Z/LB	.0000	.7000	.7010	.6200	.6000	.6200	.9400	1.0000	1.0210	1.0400					

ALPHAO1 30 = -.348 SETAO (4) = 4.100

SECTION (1) -ORBITER PUBLBLAZE DEPENDENT VARIABLE CP

Z/LB	.0000	.0000	.0200	.0470	.0700	.1100	.1500	.1670	.1700	.2000	.2170	.3010	.3700	.4900	.5700
PWT															
88.000	1.8100	.6465	-.0100	-.0000	-.1700	-.2302		-.2306	-.2039	-.2791	-.2235	-.1700	-.1246	-.1197	
89.000		-.0477	-1.475	-.2009	-.2708		-.3306	-.2990							
90.000		.0085	-.1930	-.2504	-.2039		-.3209	-.3263	-.3934	-.2918	-.1799	-.0790	-.0242		
95.000		-.0409	-.2075	-.2847	-.2987		-.3470	-.3784							
98.000		-.0115	-.2042	-.2093	-.2390		-.3396	-.4091	-.4043	-.1799	-.0993	-.0279			
99.000		-.0113	-.0016	-.1055	-.3475	-.2483	-.4029	-.6181	-.9830	-.2009	-.0466	-.0275			
140.000															
150.000															
170.000															
174.000															
178.000															
182.000															
186.000															
190.000															
194.000															
198.000															
200.000															
Z/LB	.0000	.7000	.7010	.6200	.6000	.6200	.9400	1.0000	1.0210	1.0400					





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ALPHACX 2) 2 0.348 SETHO (1) 0.120 MK11-716 IAI4 CR-T112-S12MCS CRO. PURCHASE (R01043)

SECTION (1) INCRIBITER PURCHASE DEPENDENT VARIABLE CP

W/L/S	0.000	.0000	.0020	.0470	.0700	.1120	.1390	.1670	.1700	.2020	.2300	.2010	.3790	.4080	.5700
PMT															
100.000															
140.000															
150.000															
151.000															
152.000															
153.000															
154.000															
155.000															
156.000															
157.000															
158.000															

SECTION (1) INCRIBITER PURCHASE DEPENDENT VARIABLE CP

W/L/S	0.000	.0000	.0020	.0470	.0700	.1120	.1390	.1670	.1700	.2020	.2300	.2010	.3790	.4080	.5700
PMT															
100.000															
140.000															
150.000															
151.000															
152.000															
153.000															
154.000															
155.000															
156.000															
157.000															
158.000															

SECTION (1) INCRIBITER PURCHASE DEPENDENT VARIABLE CP

W/L/S	0.000	.0000	.0020	.0470	.0700	.1120	.1390	.1670	.1700	.2020	.2300	.2010	.3790	.4080	.5700
PMT															
100.000															
140.000															
150.000															
151.000															
152.000															
153.000															
154.000															
155.000															
156.000															
157.000															
158.000															

SECTION (1) INCRIBITER PURCHASE DEPENDENT VARIABLE CP

W/L/S	0.000	.0000	.0020	.0470	.0700	.1120	.1390	.1670	.1700	.2020	.2300	.2010	.3790	.4080	.5700
PMT															
100.000															
140.000															
150.000															
151.000															
152.000															
153.000															
154.000															
155.000															
156.000															
157.000															
158.000															

SECTION (1) INCRIBITER PURCHASE DEPENDENT VARIABLE CP

W/L/S	0.000	.0000	.0020	.0470	.0700	.1120	.1390	.1670	.1700	.2020	.2300	.2010	.3790	.4080	.5700
PMT															
100.000															
140.000															
150.000															
151.000															
152.000															
153.000															
154.000															
155.000															
156.000															
157.000															
158.000															

ORIGINAL PAGE IS OF POOR QUALITY

ALPHAXI 4) 6 4.136 GETMO (1) = -0.000

SECTION (1) CRITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1500	.1670	.1700	.2000	.2200	.3010	.3790	.4990	.5700
PWT															
100.000															
109.000															
174.000															
100.000	1.0000	.4400	.1150	.0790	.0594	.1150	.0072	.3001							
W/LB	.0000	.7000	.7010	.0000	.0000	.0000	.0000	1.0000	1.0010	1.0400					

PWT															
100.000	.0000	-.0000	-.1570	-.3800	-.3714	.0000	-.3000	-.1400	-.1000	-.0000					
109.000	.1010	-.0000	-.0100	-.0000	-.3000	-.3000	-.3000	-.1000	-.1000	-.1000					
174.000	-.3000	-.0000	-.0000	.1000	.0000	.0000	-.0000	.0000	.0000	.0000					
100.000	-.3000	-.0000	.0214	.1542	.0000	.0000	.0000	.0000	.0000	.0000					
109.000			.1041	.1000	-.0000	.0000	.0000	.0000	.0000	.0000					
110.000			.3790	.1891	-.0000	-.0000	-.1000	-.1000	-.1000	-.1000					
120.000	-.3000	-.1000	.0000	.0000	-.1000	-.1000	-.1000	-.1000	-.1000	-.1000					
130.000	-.1000	-.0000	.1000	.1000	.1000	.1000	.1000	.1000	.1000	.1000					
140.000	-.1000	-.1000	.1000	.1000	.1000	.1000	.1000	.1000	.1000	.1000					
150.000	-.1000	-.1000	.1000	.1000	.1000	.1000	.1000	.1000	.1000	.1000					

ALPHAXI 4) 8 4.000 GETMO (2) = -4.000

SECTION (1) CRITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1500	.1670	.1700	.2000	.2200	.3010	.3790	.4990	.5700
PWT															
100.000															
109.000															
174.000															
100.000	1.1000	.0000	.1110	-.0000	-.1175	-.0000	-.1000	-.1000	-.1000	-.1000					
109.000			.1000	.0100	-.0000	-.1000	-.1000	-.1000	-.1000	-.1000					
174.000	.3000	.1070	.0000	.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000					
100.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000					
109.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000					
110.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000					
120.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000					
130.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000					
140.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000					
150.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000					
160.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000					
170.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000					
180.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000					
190.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000					
200.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000					
W/LB	1.1000	.4707	.1036	.1000	.1000	.1000	.1000	.1000	.1000	.1000					

PWT															
100.000	1.1000	.4707	.1036	.1000	.1000	.1000	.1000	.1000	.1000	.1000					
109.000															
174.000															
100.000	.0000	.7000	.7010	.0000	.0000	.0000	.0000	.0000	.0000	.0000					



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

(RB1843)

CRE. FUSELAGE

ARC11-716 1A14 01-718+SIZE5

ALPHAX 4) = 4.050 BETA0 (2) = -4.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6550	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0269	-.0471	-.1725	-.3756	-.5270	.0000	.0000	-.1908	-.1645	
40.000	.0602	.0406	-.0532	-.2649	-.3071	-.3486	-.2749	.0000	.0000	
70.000	-.2523	-.4062	-.1270	.0671	-.0091	.0195	-.0592			
90.000	-.2335	-.3106	-.0592	.0321	-.0366	-.0277	-.1083			
105.000		.0692	-.0474	-.0634	-.1036	-.1332				
110.000							-.2245			
120.000	-.2325	-.1129	.1927	-.0103	-.1217	-.0655	-.1229	-.1751		
135.000		.3715	-.0317	-.1331	-.0936	-.1767				
150.000	-.1084	.0065	.2010	.0466	-.1032	-.1095	-.2273			
165.000	-.0985		.1986		-.0372	-.1263	-.2474			
180.000	-.0747	.0132	.1435	.3006						

ALPHAX 4) = 4.050 BETA0 (3) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1740	.8054	.1046	-.0503	-.1106	-.2269		-.1823	-.1686	-.1493	-.0787	-.0420	.0116	.0347	
20.000		.1443	-.0096	-.0930	-.2084		-.2330	-.1692	-.1961	-.2376	-.1099	-.0573	.0368	.0503	
40.000		.2431	.0230	-.0735	-.1607		-.2075	-.2363	-.3141	-.6253	-.1967	-.3750	-.0364		
55.000		.2633	.0546	-.0621	-.1206		-.1713	-.1835	-.3465	-.6081	-.1765	-.0734	-.0255		
70.000		.2955	.0674	-.0526	-.0855		-.1635	-.0238	-.5029	-.7772	-.3732	-.0635	-.0469		
90.000		.4276	.2536	.0660	-.0600	-.0330		-.6464	-.10520	-.6972	-.3210	-.0426	-.0360		
120.000		.2746	.0323	.0194	.0787										
140.000			.2221	.1316	.0711	.1411		.0690							
150.000							.4449								
156.000								.1364							
162.000									-.11360	-.7483	-.3123	-.0201	-.0306		
165.000															
168.000															
174.000						.6836									
180.000	1.1740	.4654	.1926	.1484	.1155	.1636		.5114							
X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.000	.0477	-.0295	-.1545	-.3616	-.2733	.0000	-.2911							
.000									-.1457	-.1444					
40.000	.0293	-.0027	-.0961	-.3094	-.3197	-.3464	-.2633		.0000	.0000					
70.000	-.2732	-.3533	-.2068	-.0239	-.0794	-.0332	-.0825								
90.000	-.2050	-.2615	-.1424	-.0796	-.1165	-.0746	-.1335								
105.000			-.0465	-.1773	-.1569	-.1363	-.1599								
110.000															

ORIGINAL PAGE IS OF POOR QUALITY

(R01843)

CRB. FUSELAGE

ARC11-716 1A14 01-112-31263

ALPHAX 4) = 4.030 BETA (3) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PWT										
120.000	-.1283	-.0729	.0376	-.1775	-.1936	-.1427	-.1631	-.1696		
135.000		.3687	-.0241	-.2164	-.1609	-.2082				
150.000	-.0716	.0166	.2350	.0955	-.2356	-.2221	-.2357			
165.000	-.0584		.1632		-.1674	-.2317	-.2246			
180.000	-.0475	.0279	.1512	.3926						

ALPHAX 4) = 4.140 BETA (4) = 4.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760	
PWT																
.000	1.1410	.9685	.0696	-.0502	-.1982	-.2272		-.1832		-.1632	-.1637	-.1123	-.0915	-.0290	-.0117	
20.000		.0885	-.0630	-.1594	-.2222			-.2552		-.1944		-.2335	-.1447	-.0915	-.0034	.0436
40.000		.0912	-.0907	-.1968	-.2012			-.2554		-.2335	-.2488	-.1447	-.0915	-.0034		
55.000		.1123	-.0691	-.1947	-.2016			-.2772		-.2993		-.3884	-.7499	-.1663	-.0778	-.0448
70.000		.1320	-.0614	-.1903	-.1715			-.2322		-.4572	-.8335	-.1643	-.0774	-.0270		
90.000	.1980	.0706	-.0842	-.2201	-.1537			-.2804		-.6811	-.7633	-.3043	-.0693	-.0365		
120.000		.1324	-.0624	-.0900	-.0090			-.1432		-.8731		-.1190	-.7430	-.3903	-.0278	-.0343
140.000		.1981	.0711	.0102	.0799			-.0602								
150.000								.3127								
151.000									.0311							
158.000										-1.1430	-.7649	-.3837	-.0284	-.0494		
162.000																
165.000																
169.000																
174.000																
180.000	1.1410	.4216	.2077	.1333	.0903	.1636	.6226	.4802		-1.3110	-.7629	-.3368	-.0371	-.0420		

X/LB	.6580	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PWT										
.000	-.0029	-.0736	-.2326	-.4442	-.3285	.0000	-.2920		-.1805	-.1705
48.000	-.0182	-.0742	-.1779	-.3661	-.3275	-.3115	-.2271		.0000	.0000
70.000	-.2476	-.3237	-.2700	-.1294	-.1605	-.0874	-.1166			
90.000	-.1793	-.2360	-.2177	-.1868	-.1666	-.1301	-.1699			
105.000		-.1431	-.2877	-.2335	-.1851	-.1835				
110.000										
120.000	-.0872	-.0647	-.0683	-.3932	-.2961	-.2199	-.2087	-.2408		
135.000		.4094	-.0997	-.3994	-.2794	-.2712				
150.000	-.0489	.0160	.2237	.0943	-.4284	-.3288	-.3104			
165.000	-.0643		.1821		-.3552	-.3654	-.2286			
180.000	-.0720	.0189	.1326	.3015						



(RB1843)

ARC11-716 1A14 01+112+812625

ORB. FUSELAGE

ALPHAOX 4) = 4.150 BETA0 (5) = 6.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.0470	.4664	-.0194	-.1023	-.1906	-.2566	-.2275	-.2451	-.2661	-.2148	-.1651	-.1093	-.0531	
20.000				-.0312	-.1513	-.2124	-.2768	-.3376	-.2856	-.3062	-.2321	-.1633	-.0823	-.0078	
40.000				-.0786	-.2074	-.2601	-.2734	-.3223	-.3062	-.3791	-.2321	-.1633	-.0823	-.0078	
55.000				-.0729	-.2326	-.3163	-.2667	-.3336	-.3509	-.4548	-.6290	-.1892	-.0956	-.0469	
70.000				-.0455	-.2308	-.2995	-.2416	-.3157	-.3580	-.3799	-.1966	-.0720	-.0291		
90.000				-.0783	-.0920	-.2191	-.3296	-.3374	-.4498	-.6381	-.3484	-.0762	-.0404		
120.000				-.0204	-.1700	-.2349	-.1232	-.2666	-1.2130						
140.000				.0395	-.0069	-.1033	-.0200		-1.2590	-.7183	-.5242	-.0384	-.0688		
150.000								.1540	-.2326						
156.000									-.1028						
162.000								.3766	-.9743	-.7225	-.5446	-.0692	-.0933		
165.000															
169.000															
174.000							.5117		-.6130	-.7203	-.5357	-.1267	-.0937		
180.000															

X/LB .6630 .7300 .7610 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI	.000	-.0720	-.1421	-.2611	-.4027	-.3741	.0000	-.3067	-.1845	-.1661	.0000	.0000	.0000	.0000	.0000
40.000				-.0435	-.0954	-.1906	-.3787	-.3013	-.2166						
70.000				-.2107	-.2667	-.2904	-.1671	-.2194	-.1330	-.1365					
90.000				-.1527	-.2136	-.2375	-.2327	-.2689	-.1762	-.1830					
105.000				-.1790	-.3429	-.3073	-.2242	-.2043							
110.000				-.0847	-.0966	-.0769	-.4613	-.4101	-.2637	-.2406	-.2145				
135.000				.2525	-.1624	-.7661	-.3729	-.2980							
150.000				-.1033	-.0133	-.1736	-.0916	-.6790	-.5653	-.3062					
165.000				-.1027	-.1415		-.5167	-.5917	-.2460						
180.000				-.1115	-.0076	-.1326	-.2236								

ALPHAOX 5) = 6.040 BETA0 (1) = -6.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2520	.3010	.3790	.4990	.5760
PHI	.000	1.0460	.6091	.1076	-.1165	-.1607	-.2017	-.1815	-.1356	-.1321	-.0932	-.0381	.0190	.0620	
20.000				.2295	.0219	-.0878	-.1449	-.1920	-.0978	-.0736	-.0963	-.0606	-.0231	.1051	.1614
40.000				.3114	.1967	.0728	-.0065	-.1348	-.0736	-.0963	-.0606	-.0231	.1051	.1614	
55.000				.6225	.3607	.2139	.1143	.0164	-.0230	-.0688	-.2416	-.1581	-.0766	-.0197	
70.000				.6067	.3742	.2163	.1409	.0321	-.0688	-.2416	-.1581	-.0766	-.0197		
90.000				.7749	.5257	.3281	.1729	.0427	-.1179	-.2614	-.2082	-.1144	-.0417		

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ARC11-716 1A14 OBITER-SIZES CRB. FUSBLAGE (681843)

ALPHAX 51 = 0.040 BETA0 (1) = -0.070

SECTION (1) OBITER FUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0050	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2920	.3010	.3790	.4990	.5760
PH1															
120.000			3.295	.1236	.0732	.1244		.1594		-2.216	-.5143	-.6272	-.4278	-.3696	
140.000										-.3481					
150.000			.1277	.0187	-.0136	.0693				-.4514	-.6922	-.5559	-.2263	-.1999	
151.000								.2336							
156.000								.2642							
162.000															
165.000															
169.000															
174.000															
180.000	1.0680	.3424	.0083	-.0213	-.0233	.0364	.6282	.2386							
X/LB	.6230	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

SECTION (2) OBITER FUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0050	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2920	.3010	.3790	.4990	.5760
PH1															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0680	.3424	.0083	-.0213	-.0233	.0364	.6282	.2386							
X/LB	.6230	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

ALPHAX 51 = 0.040 BETA0 (2) = -4.020

SECTION (1) OBITER FUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0050	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2920	.3010	.3790	.4990	.5760
PH1															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.1340	.6377	.1413	-.0464	-.1246	-.1996									
X/LB	.6230	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

SECTION (2) OBITER FUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0050	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2920	.3010	.3790	.4990	.5760
PH1															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.1340	.6377	.1413	-.0464	-.1246	-.1996									
X/LB	.6230	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					



ALPHAO (3) = 8.010 BETAO (3) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7500	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0777	-.0040	-.1301	-.3720	-.2680	.0000	-.2741		-.1368	-.1509
40.000	.0296	.0246	-.0749	-.2631	-.5116	-.3361	-.2404		.0000	.0000
70.000	-.3270	-.5196	-.2160	-.0115	-.0638	-.0447	-.0605			
90.000	-.2615	-.3669	-.1441	-.0608	-.1228	-.0860	-.1336			
105.000			-.0485	-.1573	-.1577	-.1601	-.1590			
110.000										-.2156
120.000	-.1882	-.1225	-.0161	-.1560	-.1957	-.1520	-.1618			-.1811
135.000			.2932	-.0455	-.2193	-.1699	-.1946			
150.000	-.1101	-.0303	.1839	.0666	-.2576	-.2145	-.2440			
165.000	-.0896		.1263		-.1778	-.2287	-.2118			
180.000	-.0819	-.0117	.1040	.3568						

ALPHAO (3) = 8.000 BETAO (4) = 4.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.3760
PHI															
.000	1.1210	.6127	.0632	-.0468	-.1577	-.2308		-.1633		-.1356	-.1267	-.0600	-.0374	-.0092	.0121
20.000			.0853	-.0579	-.1426	-.2221		-.2427		-.1885		-.1261	-.0577	.0290	.0670
40.000			.1129	-.0833	-.1507	-.2037		-.2386		-.2061	-.2513				
55.000			.1182	-.0899	-.1616	-.2069		-.2610		-.2698					
70.000			.1176	-.0930	-.1915	-.1768		-.2315		-.3573	-.7219	-.1976	-.1091	-.0903	
90.000		.1533	.0997	-.1025	-.2176	-.1469		-.2433		-.4091	-.7894	-.2055	-.1054	-.0295	
120.000			.1074	-.1367	-.1243	-.0253		-.1117		-.6146	-.6836	-.3616	-.0934	-.0268	
140.000										-.8396					
150.000			.0622	.0117	-.0569	.0431				-.12170	-.6843	-.4997	-.0641	-.0137	
175.000															
195.000															
165.000															
180.000															
174.000															
160.000	1.1210	.3161	.1172	.0547	.0130	.1099									
W/LB	.6530	.7500	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.0845	-.0412	-.2157	-.4276	-.3076	.0000	-.2895								
40.000	.0190	-.0345	-.1574	-.3423	-.3188	-.2976	-.2099								
70.000	-.3112	-.4264	-.3090	-.1048	-.1354	-.0756	-.0979								
90.000	-.2368	-.3160	-.2389	-.1676	-.1761	-.1168	-.1570								
105.000			-.1634	-.2636	-.2167	-.1715	-.1609								
110.000															

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ARC11-716 1A14 01-T18-S18S5 (881843)

CRS. PUSLAGE

ALPHAO (9) = 0.000 BETAO (4) = 4.130

SECTION (1) CRITTER PUSLAGE DEPENDENT VARIABLE CP

X/LB	0.000	.700	.7010	.0230	.0020	.0230	.9030	1.0000	1.0210	1.0400
PHI										
120.000	-.1304	-.1300	-.1026	-.3402	-.2714	-.1932	-.1999	-.2034		
135.000			.3000	-.0449	-.2835	-.2449	-.2517			
150.000	-.0091	-.0210	.1967	0.0906	-.3066	-.2630	-.2936			
165.000	-.0037		.1109		-.3074	-.3410	-.2044			
180.000	-.1091	-.0256	.0037	.2974						

ALPHAO (9) = 0.000 BETAO (9) = 6.250

SECTION (1) CRITTER PUSLAGE DEPENDENT VARIABLE CP

X/LB	0.000	.0000	.0000	.0420	.0470	.0700	.1120	.1980	.1670	.1700	.2030	.2010	.3790	.4990	.3760
PHI															
0.000	1.0150	.2615	-.0420	-.1009	-.1924	-.2396		-.1908	-.1908	-.2278	-.1774	-.1310	-.1708	-.0340	
20.000			-.0209	-.1409	-.1957	-.2397		-.3105	-.2304	-.2742	-.3376	-.2185	-.1438	-.0253	.0277
40.000			-.0038	-.1935	-.2431	-.2903		-.3196	-.3139	-.4077	-.0577	-.2175	-.1310	-.0603	
55.000			-.0775	-.2230	-.2835	-.2919		-.2971	-.4978	-.5529	-.2509	-.1021	-.0375		
70.000			-.0285	-.2307	-.3216	-.2360		-.3224	-.6008	-.0167	-.3936	-.1090	-.0314		
90.000			-.1303	-.1233	-.2419	-.3350	-.2265	-.2475	-.1.1010						
120.000			-.1075	-.2471	-.2911	-.1191			-.1.2890	-.7032	-.3763	-.0971	-.0914		
140.000			-.0208	-.0848	-.1332	-.0487			-.2358						
150.000															
170.000									.1914						
190.000										-.1235					
162.000											-.7292	-.7044	-.6053	-.1226	-.0686
169.000															
174.000															
180.000															
101.000															
110.000															
130.000															
150.000															
165.000															
180.000															

X/LB	0.000	.7000	.7010	.0230	.0020	.0230	.9030	1.0000	1.0210	1.0400
PHI										
0.000	-.0049	-.1244	-.2350	-.4202	-.3037	.0000	-.2895		-.1731	-.1645
40.000	.0074	-.0472	-.1642	-.3563	-.2969	-.2967	-.1917		.0000	.0000
70.000	-.2791	-.3394	-.3005	-.1671	-.1671	-.1203	-.1311			
90.000	-.2229	-.2681	-.2209	-.2308	-.2246	-.1999	-.1799			
105.000			-.1764	-.3290	-.2662	-.2161	-.1993			
110.000										
120.000			-.1306	-.1330	-.0717	-.3944	-.3313	-.2499	-.2225	-.2143
135.000			.3132	-.1296	-.3009	-.3102	-.2644			
150.000			-.1293	-.0900	.1111	-.0337	-.4092	-.3114		
165.000			-.1412	-.531	-.5491	-.4232	-.2255			
180.000			-.1409	-.6909	.0227	.1010				

ORIGINAL PAGE IS OF POOR QUALITY

REFERENCE DATA

WRP = 2.4210 99.FT. WRP = 29.2900 INCHES
 LWRP = 38.7090 INCHES YWRP = .0000 INCHES
 SWRP = 38.7090 INCHES ZWRP = .0000 INCHES
 SCALE = .0000 SCALE

ALPHAK (1) = -7.976 BETAO (1) = -8.050

SECTION (1) CRG112P PUBLAGE DEPENDENT VARIABLE CP

M/S	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5780
PH1	.000	1.1300	.4534	.0896	-.0458	-.0968	-.1896	-.2211	-.2078	-.2406	-.1616	-.1130	-.0415	-.0324	
20.000			.1268	.0257	-.0394	-.1284	-.2606	-.2191	-.2464	-.2622	-.1424	-.0692	.0374	.0704	
40.000			.3720	.1061	.0211	-.0539	-.0931	-.0931	-.1682	-.1649	-.6377	-.0376	.0208	.1027	
55.000			.5229	.3094	.1841	.0884	.0023	.0200	-.1965	-.5642	-.0777	.0372	.1022		
70.000			.6487	.4088	.2854	.1896	.2442	.2442	-.1489	-.5151	-.2033	.0096	.0921		
90.000			.9012	.6712	.4807	.3026	.2172		-.1153	-.1727	-.6946	-.1062	-.0309	.0113	
120.000			.9801	.6634	.4073	.3637									
140.000			.5793	.4880	.4056	.4124		.9912							
174.000								.7081							
182.000								.4432							
188.000								.7260							
190.000							.8390								
194.000			1.1800	.7819	.6990	.3606	.3421	.5976							
196.000			.6830	.7900	.7810	.6230	.6620	.1230	.9430	1.0020	1.0210	1.0460			
PH1															
40.000			-.0483	-.0702	-.1895	-.2993	-.4236	.0000	-.4070						
70.000			-.0816	-.0295	-.0427	-.2065	-.7396	-.3490	-.3758						
90.000			.0329	-.0210	.0788	.1856	.0988	.0545	-.0651						
104.000			.0881	.0941	.1381	.1802	.0445	.0256	-.0997						
118.000					.2338	.1186	.0075	-.0410	-.1168						
120.000			.6984	.1384	.4411	.1173	-.0026	-.0108	-.0961						
135.000					.3722	.1956	.0500	.0454	-.1003						
150.000			.0217	.1680	.3488	.2514	.1350	.0687	-.2221						
165.000			.0342	.0999	.2999	.2276	.0641	-.3630							
190.000			.8187	.1251	.2940	.4702									

PARAMETRIC DATA

MACH = .900 ELEVON = .000
 RUDDER = .000 SPDRNK = .000



(R81844)

ORB. FUELAGE

ARC11-716 IA14 OL-712-S12MS

ALPHAX (1) = -7.960 BETA0 (2) = -4.000

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2050	.4853	.0469	-.0169	-.0757	-.1632		-.2535		-.2412	-.3165	-.1265	-.0653	-.0324	-.0316
20.000		.1358	.0298	-.0362	-.1712		-.2875		-.2192		-.2417	-.3032	-.0653	.0215	.0471
40.000			.2977	.0705	-.0146	-.1331	-.2759		-.3177		-.2904	-.0571	.0409	.0673	
60.000				.4267	.1903	.0465	-.0463	-.1804		-.2797	-.1026	-.0977	.0271	.0669	
80.000					.5051	.2829	.1242	.0364		-.2673	-.6256	-.2168	.0163	.0387	
100.000		.7405	.5298	.3149	.1596	.0774		.1153		-.1712					
120.000			.5908	.3596	.3016	.2666				-.2701	-.6756	-.0962	.0088	.0463	
140.000				.5578	.4401	.3664	.3672		.3037						
160.000								.6404							
180.000									.3636						
200.000										-.8360	-.7877	-.0634	-.0042	.0308	
220.000								.7193							
240.000							.8444								
260.000	1.2050	.7693	.5057	.4201	.3737	.3919		.6176		-.9729	-.7664	-.0420	-.0169	.0290	
280.000															
300.000	.6000	.7300	.7610	.6230	.6620	.6230	.9630	1.0020	1.0210	1.0460					
PHI															
.000	-.0756	-.1299	-.2375	-.3371	-.3660	.0000	-.3759		-.2346	-.2273					
20.000		-.1226	-.1071	-.1147	-.2742	-.4409	-.3683	-.3006		.0000	.0000				
40.000			.0967	-.0461	.0208	.1062	-.0122	-.0076							
60.000				.0618	.0355	.0711	.0632	-.0348	-.0375	-.1363					
80.000					.1534	.0036	-.0771	-.0994	-.1573						
100.000								-.2955							
120.000		.0891	.1376	.2913	-.0115	-.1053	-.0998	-.1692	-.2586						
140.000			.0884	.1909	-.0506	-.0392	-.1803								
160.000		.0879	.1921	.4141	.2861	.0057	-.0367	-.2746							
180.000		.0875	.3224		.0648	-.0400	-.3368								
200.000	.0766	.1731	.3394	.5185											

ALPHAX (1) = -7.960 BETA0 (3) = .030

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2170	.4875	.0765	-.0258	-.0885	-.2385		-.2636		-.3964	-.3456	-.1204	-.0445	-.0080	-.0259
20.000		.1103	.0039	-.0696	-.2564		-.2611		-.2664		-.2452	-.0653	.0215	.0293	
40.000			.2100	.0126	-.0790	-.1990	-.2775		-.3437		-.2953	-.1025	-.0455	.0132	.0293
60.000				.2978	.0743	-.0396	-.1489	-.2729		-.4247		-.0653	.0215	.0293	
80.000					.3596	.1204	-.0109	-.0822		-.4169	-.6929	-.1300	.0493	.0786	
100.000		.2548	.3634	.1681	.0078	-.0315		-.2428		-.4416	-.6001	-.2820	.0418	.0713	

ARC11-716 1A14 CR118-318E3 CR8. PURLAGE (R81844)

ALPHAO (1) = -7.940 BETAO (3) = .030

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1590	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PWT															
120.000															
140.000															
170.000															
191.000															
198.000															
162.000															
169.000															
174.000															
190.000															
M/LB	.0000	.7000	.7010	.6200	.6620	.6230	.9480	1.0220	1.0480						
PWT															
.000															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
160.000															
180.000															

ALPHAO (1) = -7.970 BETAO (4) = 4.100

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1590	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PWT															
.000															
20.000															
40.000															
54.000															
70.000															
90.000															
120.000															
140.000															
158.000															
156.000															
162.000															
M/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1590	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PWT															
.000															
20.000															
40.000															
54.000															
70.000															
90.000															
120.000															
140.000															
158.000															
156.000															
162.000															



(R010441)

ORG. PURCHASE

ARC11-716 1A14 CR-716-81265

ALPHA(X) 1) = -0.000 BETA(O) 1) = 0.170

SECTION 1) 11CRITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.7000	.7010	.0000	.0000	.0000	.0000	.0000	.0000	1.0000	1.0010	1.0400
PWT												
.000	-1.170	-2.206	-3.006	-4.004	-4.254	.0000	-3.001				-2.017	-2.256
40.000	-1.191	-2.206	-3.102	-4.006	-3.983	-3.003	-3.100				.0000	.0000
70.000	.0100	-0.013	-1.103	-1.036	-2.403	-2.403	-2.230					
90.000	-0.0070	-0.003	-1.000	-1.718	-3.004	-2.003	-2.206					
107.000			-0.0016	-2.003	-4.177	-3.002	-2.710					
110.000												
120.000	.0274	.0000	-2.003	-0.001	-4.007	-4.002	-4.002					
135.000			.4000	-2.117	-0.906	-0.671	-0.723					
150.000	.0040	.1000	.4000	.4000	-0.000	-0.000	-0.000					
165.000	.0040		.3470									
190.000	.0100	.1007	.3000	.0033								

ALPHA(X) 2) = -4.070 BETA(O) 1) = -0.000

SECTION 1) 11CRITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1670	.1700	.2070	.2920	.3010	.3790	.4990	.9700
PWT															
.000	1.1540	.0000	.0000	-0.000	-0.133	-0.185									
20.000			.1017	.0274	-0.049	-0.1312									
40.000			.4046	.1291	.0375	.0418									
70.000			.9007	.3104	.1916	.0057									
90.000			.0000	.3000	.2334	.1301									
90.000			.0000	.0171	.4100	.2913	.1956								
120.000			.0100	.4000	.3000	.3273	.2230								
130.000			.4793	.3000	.2004	.3351									
171.000															
190.000															
190.000															
190.000															
190.000															
174.000															
190.000	1.1540	.0004	.3001	.2004	.2919	.2908	.7013								
W/LB	.0000	.7000	.7010	.0000	.0000	.0000	.0000	.0000	.0000	1.0000	1.0010	1.0400			
PWT															
.000	.0070	-0.041	-1.101	-3.175	-4.047	.0000	-3.106								
40.000	.0021	.0435	.0040	-1.000	-0.711	-3.044	-3.442								
70.000	-0.0006	-1.110	.0004	.1902	.0403	.0404	-0.0031								
90.000	-0.0400	-0.0000	.0011	.1300	.0020	.0165	-1.001								
107.000			.1900	.0002	-0.0171	-0.0000	-1.247								
110.000															



0818441

CRD. PURCHASE

ARC11-716 1A14 Q1-718-31823

ALPHAOI 21 = -3.000 SETAO (3) = .000

SECTION (1) CRIMETER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1360	.1670	.1700	.2030	.2320	.3010	.3700	.4000	.3700
PWT	1.8210	.5870	.0770	-.0470	-.1021	-.0437	-.2017	-.2795	-.2392	-.3166	-.3302	-.1571	-.0313	-.0000	-.0000
80.000		.1194	-.0142	-.0837	-.0476	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
80.000		.2190	.0119	-.0854	-.2037	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
90.000		.2933	.0845	-.0476	-.1341	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
10.000		.3434	.0999	-.0367	-.0629	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
90.000		.3935	1.4000	-.0107	-.0321	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
100.000		.4087	.1997	.1364	.1318	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071
140.000		.4179	.3247	.2393	.2090	.1603	.1603	.1603	.1603	.1603	.1603	.1603	.1603	.1603	.1603
170.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
190.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
160.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
140.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
170.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
190.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
W/LB	.0000	.7000	.7010	.6230	.6600	.6230	.9400	1.0020	1.0210	1.0400					

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1360	.1670	.1700	.2030	.2320	.3010	.3700	.4000	.3700
PWT	1.8210	.5870	.0770	-.0470	-.1021	-.0437	-.2017	-.2795	-.2392	-.3166	-.3302	-.1571	-.0313	-.0000	-.0000
80.000		.1194	-.0142	-.0837	-.0476	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
80.000		.2190	.0119	-.0854	-.2037	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
90.000		.2933	.0845	-.0476	-.1341	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
10.000		.3434	.0999	-.0367	-.0629	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
90.000		.3935	1.4000	-.0107	-.0321	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
100.000		.4087	.1997	.1364	.1318	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071
110.000		.4179	.3247	.2393	.2090	.1603	.1603	.1603	.1603	.1603	.1603	.1603	.1603	.1603	.1603
130.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
150.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
170.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
190.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
W/LB	.0000	.7000	.7010	.6230	.6600	.6230	.9400	1.0020	1.0210	1.0400					

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1360	.1670	.1700	.2030	.2320	.3010	.3700	.4000	.3700
PWT	1.8210	.5870	.0770	-.0470	-.1021	-.0437	-.2017	-.2795	-.2392	-.3166	-.3302	-.1571	-.0313	-.0000	-.0000
80.000		.1194	-.0142	-.0837	-.0476	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
80.000		.2190	.0119	-.0854	-.2037	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
90.000		.2933	.0845	-.0476	-.1341	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
10.000		.3434	.0999	-.0367	-.0629	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
90.000		.3935	1.4000	-.0107	-.0321	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795	-.2795
100.000		.4087	.1997	.1364	.1318	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071	-.0071
110.000		.4179	.3247	.2393	.2090	.1603	.1603	.1603	.1603	.1603	.1603	.1603	.1603	.1603	.1603
130.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
150.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
170.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
190.000		.4242				.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004	.2004
W/LB	.0000 <td>.7000 <td>.7010 <td>.6230 <td>.6600 <td>.6230 <td>.9400 <td>1.0020 <td>1.0210 <td>1.0400 <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td></td></td></td></td>	.7000 <td>.7010 <td>.6230 <td>.6600 <td>.6230 <td>.9400 <td>1.0020 <td>1.0210 <td>1.0400 <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td></td></td></td>	.7010 <td>.6230 <td>.6600 <td>.6230 <td>.9400 <td>1.0020 <td>1.0210 <td>1.0400 <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td></td></td>	.6230 <td>.6600 <td>.6230 <td>.9400 <td>1.0020 <td>1.0210 <td>1.0400 <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td></td>	.6600 <td>.6230 <td>.9400 <td>1.0020 <td>1.0210 <td>1.0400 <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td>	.6230 <td>.9400 <td>1.0020 <td>1.0210 <td>1.0400 <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td>	.9400 <td>1.0020 <td>1.0210 <td>1.0400 <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td>	1.0020 <td>1.0210 <td>1.0400 <td></td> <td></td> <td></td> <td></td> <td></td> </td></td>	1.0210 <td>1.0400 <td></td> <td></td> <td></td> <td></td> <td></td> </td>	1.0400 <td></td> <td></td> <td></td> <td></td> <td></td>					

ALPHAOI 21 = -3.000 SETAO (4) = 4.000

SECTION (1) CRIMETER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1360	.1670	.1700	.2030	.2320	.3010	.3700	.4000	.3700
PWT	1.1000	.3032	.0636	-.0336	-.1349	-.2441	-.2194	-.2194	-.2194	-.2194	-.2194	-.2194	-.2194	-.2194	-.2194
80.000		.0391	-.0463	-.1396	-.2927	-.2927	-.2927	-.2927	-.2927	-.2927	-.2927	-.2927	-.2927	-.2927	-.2927
80.000		.1021	-.0727	-.1507	-.2909	-.2909	-.2909	-.2909	-.2909	-.2909	-.2909	-.2909	-.2909	-.2909	-.2909
90.000		.1493	-.0598	-.1003	-.2319	-.2319	-.2319	-.2319	-.2319	-.2319	-.2319	-.2319	-.2319	-.2319	-.2319
10.000		.1941	-.0373	-.1730	-.1741	-.1741	-.1741	-.1741	-.1741	-.1741	-.1741	-.1741	-.1741	-.1741	-.1741
90.000		.2111	.0073	-.0037	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034
110.000		.2111	.0073	-.0037	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034
130.000		.2111	.0073	-.0037	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034
150.000		.2111	.0073	-.0037	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034
170.000		.2111	.0073	-.0037	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034
190.000		.2111	.0073	-.0037	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034	-.1034
W/LB	.0000 <td>.7000 <td>.7010 <td>.6230 <td>.6600 <td>.6230 <td>.9400 <td>1.0020 <td>1.0210 <td>1.0400</td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td></td></td></td>	.7000 <td>.7010 <td>.6230 <td>.6600 <td>.6230 <td>.9400 <td>1.0020 <td>1.0210 <td>1.0400</td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td></td></td>	.7010 <td>.6230 <td>.6600 <td>.6230 <td>.9400 <td>1.0020 <td>1.0210 <td>1.0400</td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td></td>	.6230 <td>.6600 <td>.6230 <td>.9400 <td>1.0020 <td>1.0210 <td>1.0400</td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td>	.6600 <td>.6230 <td>.9400 <td>1.0020 <td>1.0210 <td>1.0400</td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td>	.6230 <td>.9400 <td>1.0020 <td>1.0210 <td>1.0400</td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td>	.9400 <td>1.0020 <td>1.0210 <td>1.0400</td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td>	1.0020 <td>1.0210 <td>1.0400</td> <td></td> <td></td> <td></td> <td></td> <td></td> </td>	1.0210 <td>1.0400</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1.0400					

ORIGINAL PAGE 10 OF POOR QUALITY



(R181844)

CRS. FUELAGE

ALPHAO(2) = -3.850 BETA0 (4) = 4.000

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE C*

X/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1790	.1670	.1790	.2050	.2320	.3010	.3790	.4990	.3760
PWT															
120.000		.2796	.0757	-.0061	.0349		-.1544		-.0099	-.6642	-.4624	-.0513	.0050		
140.000									-.9178						
150.000		.3384	.2509	.1627	.1914				-.9111	-.9836	-.1870	-.0366	-.0060		
171.000							.0247								
194.000							.3848								
162.000															
166.000							.1489		-.6705	-.9236	-.1528	-.0238	-.0097		
169.000															
174.000							.5937								
160.000	1.1660	.6533	.4183	.3336	.2767	.3175	.7295	.6029	-1.0450	-.6634	-.1341	-.0114	.0067		
X/LB	.6630	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0480						

X/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1790	.1670	.1790	.2050	.2320	.3010	.3790	.4990	.3760
PWT															
40.000		-.0008	-.1217	-.2360	-.4362	-.3543	.0000	-.3364		-.2054	-.2060				
70.000		-.0918	-.1432	-.2296	-.4112	-.3678	-.3567	-.2724		.0000	.0000				
90.000		-.0360	-.1163	-.1325	-.0782	-.3136	-.1592	-.1613							
105.000		-.0094	-.0357	-.0901	-.1316	-.3536	-.1943	-.2031							
110.000			-.0262	-.2197	-.4100	-.2732	-.2243								
120.000	.0136	.0519	-.0327	-.3931	-.5339	-.3425	-.2636	-.2560							
135.000			.2099	-.0164	-.6449	-.4166	-.3724								
150.000	.0295	.1181	.4100	.3033	-.4469	-.4685	-.3770								
165.000	.0297		.3215		-.2877	-.4780	-.2370								
160.000	.0249	.1219	.2860	.4661											

ALPHAO(2) = -3.850 BETA0 (5) = 9.150

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE C*

X/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1790	.1670	.1790	.2050	.2320	.3010	.3790	.4990	.3760
PWT															
20.000		1.1130	.4463	.0060	-.0598	-.1308	-.2382	-.2701	-.2956	-.3224	-.2572	-.2031	-.1423	-.1307	
40.000				-.0241	-.1120	-.1848	-.3056	-.3362	-.3269	-.2873	-.4483	-.2572	-.2029	-.0833	-.0321
55.000				.0032	-.1639	-.2900	-.3077	-.3124	-.4387						
70.000				.0456	-.1801	-.2922	-.2644	-.3638	-.3294	-.4684	-.4402	-.0807	.0291		
90.000	.0751	.0660	-.1405	-.3200	-.2597	-.4040		-.4040	-.3994	-.5047	-.3500	-.1237	.0279		
120.000		.1305	-.0990	-.1632	-.1004	-.3132		-.3132	-.1080	-.5713	-.4669	-.1869	-.0197		
140.000									-.9997	-.9192	-.2414	-.1431	-.0694		
150.000		.1923	.1646	.0672	.0665										
151.000															
156.000															
162.000															

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ARC11-716 1A14 04-712-812K25 CRG. FUSELAGE (R81844)

ALPHA(2) = -3.930 BETA(5) = 8.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PWT															
165.000															
169.000								.4861							
174.000							.6282								
180.000	1.1190	.9756	.3705	.2740	.2295	.2721		.4951							
X/LB	.6630	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PWT															
.000															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHA(3) = .060 BETA(1) = -6.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PWT															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
156.000															
162.000															
169.000															
174.000															
180.000	1.1500	.9748	.2537	.1886	.1827	.2136		.4156							
X/LB	.6630	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

PWT															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
151.000															
156.000															
162.000															
169.000															
174.000															
180.000															



ALPHAX (3) = -.350 BETA0 (2) = -4.050

SECTION (1) CRITTER FUELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.8250	.8620	.9250	.9650	1.0060	1.0210	1.0460
PHI										
120.000	-1.1050	-0.0261	.8471	-0.4617	-1.135	-0.922	-1.469	-2.139		
135.000		.4755	.0541	-1.053	-0.679	-1.930				
150.000	-0.0369	.0753	.2965	-0.0955	-1.019	-2.771				
165.000	-0.0299	.2376		-0.246	-1.136	-3.076				
180.000	-0.0206	.0755	.2321	.3769						

ALPHAX (3) = -.350 BETA0 (3) = .050

SECTION (1) CRITTER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	1.2160	.3796	.0803	-0.533	-1.095	-2.254	-1.907	-2.037	-2.274	-1.272	-0.493	.0055	.0229		
40.000		.1277	-0.156	-0.847	-2.159	-2.354	-2.354	-2.003	-2.167	-3.653	-1.401	-0.990	.0266	.0810	
60.000		.2301	.0112	-0.792	-1.655	-2.299	-2.036	-2.463	-2.463						
80.000		.2932	.0565	-0.581	-1.194	-1.690	-1.690	-3.157	-3.157	-6.043	-1.755	-0.135	.0110		
100.000		.3307	.0667	-0.365	-0.662	-1.762	-1.762	-3.467	-3.467	-7.765	-2.524	-0.063	.0179		
120.000		.4666	.2911	-1.020	-0.424	-0.137	-0.137	-4.765	-4.765	-7.468	-3.752	.0264	.0005		
140.000		.3556	.2340	.1640	.2250			-5.936	-5.936	-1.0220	-3.107	.0309	.0005		
160.000															
180.000															
200.000															
220.000															
240.000															
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															

X/LB	.6530	.7500	.7610	.8250	.8620	.9250	.9650	1.0020	1.0210	1.0460
PHI										
40.000	.0276	-0.425	-1.639	-3.667	-3.172	.0000	-3.159			
60.000	-0.0006	-0.0232	-0.046	-0.3069	-3.374	-3.643	-2.691			
80.000	-1.491	-2.366	-1.539	-0.966	-2.406	-0.748	-1.165			
100.000	-1.040	-1.620	-0.894	-0.708	-3.057	-1.000	-1.567			
120.000		-0.002	-1.601	-3.534	-1.619	-1.635				
140.000										
160.000										
180.000										
200.000										
220.000										
240.000										
260.000										
280.000										
300.000										
320.000										
340.000										
360.000										
380.000										
400.000										
420.000										
440.000										
460.000										
480.000										
500.000										

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DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

(R81844)

ORB. FUELAGE

ARC11-716 1A14 01+712+51265

ALPHAO(3) = -.380 BETAO(4) = 4.100

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1790	.2050	.2320	.3010	.3790	.4990	.9790
PHI															
PHI	.000	1.1870	9.460	.0702	-.0409	-.1404	-.2165	-.1709		-.1632	-.2113	-.1998	-.0947	-.0250	-.0132
20.000				.0702	-.0566	-.1465	-.2294	-.2360		-.2055	-.3623	-.1796	-.0668	-.0001	.0435
40.000				.1056	-.0942	-.1793	-.1932	-.2368		-.2370	-.3623	-.1796	-.0668	-.0001	.0435
55.000				.1398	-.0771	-.1964	-.1797	-.2825		-.2949	-.3681	-.0797	-.0104	.0069	
70.000				.1757	-.0568	-.1932	-.1435	-.2361		-.4818	-.8533	-.3421	.0099	.0177	
90.000				.2798	.1482	-.0224	-.1756	-.1334		-.6340	-.8662	-.4577	.0131	-.0003	
120.000				.2562	.0392	-.0413	.0368	-.1190		-.8654					
140.000				.2680	.1815	.1047	.1589		.0197	-1.0130	-1.0410	-.2904	.0102	-.0102	
150.000															
151.000								.3789							
156.000									.1279						
162.000										-.9444	-.9694	-.2050	.0100	-.0187	
165.000															
169.000															
174.000															
180.000															
X/LB	.6530	.7500	.7810	.8230	.8620	.9250	.9650	1.0020	1.0210	1.0480					
PHI															
PHI	.000	-.0023	-.0714	-.2245	-.4657	-.3513	.0000	-.3266		-.2073	-.2161				
40.000				-.0267	-.0809	-.1743	-.3948	-.3426	-.3336	.0000	.0000				
70.000				-.1205	-.1961	-.1600	-.0932	-.3796	-.1825	-.1322					
90.000				-.0755	-.1262	-.1263	-.1427	-.4172	-.2411	-.1984					
105.000						-.0503	-.2404	-.4888	-.3084	-.2114					
110.000															
120.000				-.0294	-.0069	-.0266	-.3517	-.5488	-.4105	-.2283					
135.000						.4878	-.0107	-.6364	-.4923	-.2693					
150.000				-.0091	.0628	.3599	.2333	-.4822	-.5044	-.3405					
165.000				-.0136		.2669									
180.000				-.0187	.0794	.2533	.4256								

ALPHAO(3) = -.330 BETAO(5) = 6.150

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1790	.2050	.2320	.3010	.3790	.4990	.9790
PHI															
PHI	.000	1.1120	.4682	.0070	-.0716	-.1672	-.2407	-.2282		-.2538	-.2880	-.2339	-.1801	-.0943	-.0627
20.000				-.0201	-.1249	-.2088	-.2905	-.3082		-.2519	-.3052	-.2420	-.1699	-.0492	.0074
40.000				-.0309	-.1797	-.2763	-.3165	-.2753		-.2678	-.4432	-.2420	-.1699	-.0492	.0074
55.000				-.0086	-.1971	-.3151	-.2645	-.2992		-.3544	-.3544	-.3819	-.0626	.0104	
70.000				.0295	-.1993	-.3249	-.2213	-.2892		-.4655	-.5483	-.3819	-.0626	.0104	
90.000				.0309	-.0399	-.1638	-.3519	-.3373		-.5645	-.5009	-.3219	-.0771	-.0273	

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(M81844)

CRG. FUELSLAGE

ARC11-716 IA14 CR-112-SIZES

ALPHA(3) = -.350 BETA(3) = 6.150

SECTION (1) CRIBITER FUELSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
120.000			.0977	-.1060	-.1904	-.0911		-.2640		-.7670	-.5638	-.5191	-.1174	-.0048	
140.000										-1.0920					
150.000			.1529	.0928	.0021	.0525				-1.0430	-.9249	-.3480	-.0611	-.0537	
151.000								-.1430							
156.000								.2334							
162.000								.0121							
165.000															
169.000								.4643							
174.000															
180.000	1.1120	.4606	.2640	.1677	.1513	.2115	.9665	.4579		-1.1590	-.6466	-.3104	-.0857	-.0750	
X/LB	.6930	.7500	.7610	.6230	.6820	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	-.0395	-.1190	-.2626	-.4473	-.5906	.0000	-.3454			-.2472	-.2164				
40.000	-.0491	-.0962	-.1917	-.3660	-.5220	-.3422	-.2717			.0000	.0000				
70.000	-.1033	-.1676	-.1999	-.1309	-.4284	-.3529	-.2053								
90.000	-.0475	-.1074	-.1565	-.1916	-.4723	-.4008	-.2673								
105.000			-.0933	-.2804	-.5125	-.4623	-.2501								
110.000															
120.000	-.0441	-.0137	-.1366	-.5066	-.6449	-.5242	-.4066								
135.000			.3098	-.1346	-.6273	-.7622	-.5690								
150.000	-.0453	.0823	.3170	.3346	-.5625	-.6617	-.5074								
165.000	-.0447		.2642		-.5660	-.6299	-.5128								
180.000	-.0803	.0403	.2174	.3668											

ALPHA(4) = 4.200 BETA(4) = -8.100

SECTION (1) CRIBITER FUELSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
.000	1.1250	.6034	.1185	-.0815	-.1567	-.1924		-.1742		-.1471	-.1725	-.1209	-.0776	.0213	.0647
20.000			.2342	.0341	-.0776	-.1414		-.2127		-.1125					
40.000			.4943	.1806	.0645	-.0235		-.1633		-.1020	-.1602	-.1009	-.0474	.1037	.1801
55.000			.6161	.3526	.2070	.1070		-.0029		-.0465					
70.000			.6259	.3773	.2230	.1426		.0471		-.0906	-.4034	-.1804	-.0596	.0102	
90.000	.6064		.5649	.3679	.1833	.1633		.0598		-.1033	-.3327	-.2507	-.0726	-.0024	
120.000			.4533	.2006	.1669	.2014		.2046		-.1862	-.5673	-.6644	-.2623	-.2276	
140.000										-.2804					
150.000			.2369	.1439	.0699	.1609				-.3557	-.1460	-.5277	-.1038	-.1173	
151.000								.3127							
156.000								.6272							
162.000															
165.000															
169.000															
174.000															
180.000															



TABULATED PRESSURE DATA - 1A14A - VOL. 3

(R818441)

ORG. PUBLAGE

MCS11-716 1A14 O4-T12+S12MS

ALPHAO1 4) = 4.200 BETA0 (1) = -8.100

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI								.6234							
160.000															
169.000															
174.000															
180.000	1.1250	.4720	1.408	.0821	.0661	1.431	.7092								
X/LB	.6530	.7500	.7010	.8250	.8620	.9250	.9450	1.0020	1.0210	1.0490					
PHI															
160.000															
169.000															
174.000															
180.000	1.1250	.4720	1.408	.0821	.0661	1.431	.7092								
X/LB	.6530	.7500	.7010	.8250	.8620	.9250	.9450	1.0020	1.0210	1.0490					
PHI															
160.000															
169.000															
174.000															
180.000	1.1250	.4720	1.408	.0821	.0661	1.431	.7092								

ALPHAO1 4) = 4.180 BETA0 (2) = -4.020

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
160.000															
169.000															
174.000															
180.000	1.1250	.4720	1.408	.0821	.0661	1.431	.7092								
X/LB	.6530	.7500	.7010	.8250	.8620	.9250	.9450	1.0020	1.0210	1.0490					
PHI															
160.000															
169.000															
174.000															
180.000	1.1250	.4720	1.408	.0821	.0661	1.431	.7092								

ALPHAO1 4) = 4.180 BETA0 (2) = -4.020

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
160.000															
169.000															
174.000															
180.000	1.1250	.4720	1.408	.0821	.0661	1.431	.7092								
X/LB	.6530	.7500	.7010	.8250	.8620	.9250	.9450	1.0020	1.0210	1.0490					
PHI															
160.000															
169.000															
174.000															
180.000	1.1250	.4720	1.408	.0821	.0661	1.431	.7092								

MS1844)

CRS. FUSELAGE

ALPHAO(4) = 4.190 BETA0 (2) = -4.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7610	.6230	.6230	.9230	.9230	1.0210	1.0210	1.0480
PHI										
.000	.0908	-.0099	-.1302	-.3997	-.3453	.0000	-.3262		-.1793	-.1656
40.000	.0903	.0819	-.0101	-.2141	-.4939	-.3585	-.3011		.0000	.0000
76.000	-.2326	-.4303	-.1762	.0345	-.0396	.0056	-.0676			
90.000	-.1916	-.3654	-.1029	.0084	-.0814	-.0469	-.1203			
109.000		.0216	-.1036	-.1096	-.1084	-.1439				
110.000							-.2592			
120.000	-.2106	-.1706	.1267	-.0619	-.1057	-.0939	-.1396		-.1923	
135.000		.3796	-.0254	-.1061	-.0979	-.1842				
150.000	-.1022	.0016	.2133	.0336	-.1266	-.1209	-.2436			
165.000	-.0823	.1690		-.0739	-.1419	-.2636				
180.000	-.0651	.0160	.1363	.3320						

ALPHAO(4) = 4.060 BETA0 (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2090	.6432	.1279	-.0395	-.1131	-.2439		-.1847	-.1703	-.1807	-.1043	-.0360	.0366	.0665	
20.000		.1712	-.0045	-.0963	-.2621		-.2268		-.1600						
40.000		.2650	.0310	-.0723	-.2333		-.2215		-.1631	-.2927	-.1635	-.0365	.0614	.1227	
59.000		.3074	.0625	-.0626	-.1390		-.1927		-.2056						
76.000		.3202	.0820	-.0536	-.0934		-.1457		-.2689	-.7403	-.2942	-.0326	-.0020		
90.000		.4464	.2770	-.0764	-.0462		-.1476		-.3036	-.7614	-.2918	-.0515	.0093		
120.000			.2922	.0392	-.0277	.1031	.0355		-.4575	-.7393	-.4023	-.0436	-.0141		
140.000									-.3849						
150.000		.2566	.1371	.0771	.1690		.1419		-.9541	-.9462	-.4644	-.0047	.0129		
191.000							.9004								
196.000															
182.000									-.9967	-.9205	-.4407	.0166	.0102		
169.000															
168.000															
174.000															
160.000	1.2090	.4654	.2106	.1632	.1233	.2040	.0222		-.9967	-.9205	-.4407	.0166	.0102		

ALPHAO(4) = 4.060 BETA0 (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7610	.6230	.6230	.9230	.9230	1.0210	1.0210	1.0480
PHI										
.000	.0793	-.0001	-.1172	-.4007	-.3362	.0000	-.3234		-.2023	-.1933
40.000	.0826	.0408	-.0548	-.2863	-.3664	-.3694	-.2913		.0000	.0000
76.000	-.2160	-.3902	-.2446	-.0500	-.3314	-.0720	-.1036			
90.000	-.1604	-.3100	-.1606	-.0922	-.3934	-.0994	-.1394			
109.000		-.0391	-.1846	-.4631	-.1215	-.1304				
110.000							-.2591			



081044)

CRB. FUELRAGE

ARC11-716 1A14 CR-TIR-SIEMES

ALPHAOX 4) = 4.000 BETAIO (3) = .040

SECTION (1) CRIBITER FUELRAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7000	.7010	.0250	.0000	.9250	.0000	1.0000	1.0210	1.0400
PWT										
120.000	-.1120	-.0004	.0475	-.1050	-.0144	-.1000	-.1047	-.0112		
130.000	.0022	.0000	-.0002	-.1700	-.0002					
140.000	-.0000	.0107	.0210	.1070	-.0277	-.0201	-.2724			
150.000	-.0401	.1005		-.0702	-.3012	-.0232				
160.000	-.0430	.0040	.1000	.3002						

ALPHAOX 4) = 4.100 BETAIO (4) = 4.110

SECTION (1) CRIBITER FUELRAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1990	.1070	.1700	.0050	.0000	1.0210	1.0400	.3700	.4900	.5700
PWT																
20.000	1.1000	.0004	.0030	-.0006	-.1002	-.2502		-.1002	-.2412	-.1493	-.1027	-.0000	-.0000	-.0100	-.0100	-.0100
30.000		.0002	-.0027	-.1004	-.0051			-.2412	-.2412	-.1770				-.0100	-.0100	-.0100
40.000		.1104	-.0002	-.1700	-.0053			-.2340	-.2340	-.2000				-.0100	-.0100	-.0100
50.000		.1344	-.0702	-.2115	-.2157			-.2553	-.2553	-.2001				-.0100	-.0100	-.0100
60.000		.1500	-.0700	-.1900	-.1711			-.2500	-.2500	-.3497				-.0100	-.0100	-.0100
70.000		.0972	-.0700	-.2200	-.1417			-.2402	-.2402	-.4112				-.0100	-.0100	-.0100
80.000		.1700	-.0700	-.0000	.0100			-.0004	-.0004	-.0121				-.0100	-.0100	-.0100
90.000		.1754	.0001	.0100	.1002					-.0091				-.0100	-.0100	-.0100
100.000								.0049	.0049	-.1000				-.0100	-.0100	-.0100
110.000								.0001	.0001	-.1000				-.0100	-.0100	-.0100
120.000								.0001	.0001	-.1000				-.0100	-.0100	-.0100
130.000								.0001	.0001	-.1000				-.0100	-.0100	-.0100
140.000								.0001	.0001	-.1000				-.0100	-.0100	-.0100
150.000								.0001	.0001	-.1000				-.0100	-.0100	-.0100
160.000								.0001	.0001	-.1000				-.0100	-.0100	-.0100
170.000								.0001	.0001	-.1000				-.0100	-.0100	-.0100
180.000								.0001	.0001	-.1000				-.0100	-.0100	-.0100
190.000								.0001	.0001	-.1000				-.0100	-.0100	-.0100

W/LB	.0000	.7000	.7010	.0250	.0000	.9250	.0000	1.0000	1.0210	1.0400
PWT										
40.000	.0002	-.0014	-.0006	-.0004	-.3441	.0000	-.0000	-.0000	-.1972	-.1967
50.000	.0100	-.0371	-.1400	-.3000	-.3454	-.3300	-.2475		.0000	.0000
60.000	-.0013	-.3004	-.0005	-.1242	-.3039	-.1542	-.1379			
70.000	-.1474	-.0242	-.2011	-.1030	-.4175	-.2232	-.1709			
80.000		-.1240	-.2700	-.4002	-.2906	-.1975				
90.000	-.0700	-.0013	-.0005	-.3100	-.0000	-.0001	-.0001			
100.000		.0001	.0000	.0000	-.0000	-.0000	-.0000			
110.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
120.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
130.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
140.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
150.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
160.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
170.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
180.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
190.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			

W/LB	.0000	.7000	.7010	.0250	.0000	.9250	.0000	1.0000	1.0210	1.0400
PWT										
40.000	.0002	-.0014	-.0006	-.0004	-.3441	.0000	-.0000	-.0000	-.1972	-.1967
50.000	.0100	-.0371	-.1400	-.3000	-.3454	-.3300	-.2475		.0000	.0000
60.000	-.0013	-.3004	-.0005	-.1242	-.3039	-.1542	-.1379			
70.000	-.1474	-.0242	-.2011	-.1030	-.4175	-.2232	-.1709			
80.000		-.1240	-.2700	-.4002	-.2906	-.1975				
90.000	-.0700	-.0013	-.0005	-.3100	-.0000	-.0001	-.0001			
100.000		.0001	.0000	.0000	-.0000	-.0000	-.0000			
110.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
120.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
130.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
140.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
150.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
160.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
170.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
180.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			
190.000	-.0000	.0100	.0000	.0000	-.0000	-.0000	-.0000			

0818441

CRG. PUBLISHER

ARC11-716 1A14 OL-T12-812MS

ALPHAX 4) = 4.100 BETA0 (5) = 0.100

SECTION (1) CRITTER PUBLISHER DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PM1															
20.000	1.0790	.8233	.0096	-.0819	-.1979	-.2385		-.2185		-.2308	-.2666	-.2291	-.1865	-.0621	-.0745
40.000			-.0296	-.1442	-.2194	-.2916		-.3136		-.2792			-.1772	-.0433	.0198
60.000			-.0574	-.1948	-.2863	-.3213		-.2845		-.2778	-.3923	-.2922			
80.000			-.0495	-.2277	-.3370	-.2670		-.2963		-.3147					
100.000			-.0127	-.2278	-.3347	-.2141		-.2728		-.4090	-.8300	-.2416	-.0846	-.0186	
120.000			-.0453	-.0814	-.2118	-.3703	-.2133	-.3080		-.5115	-.3417	-.3239	-.0618	.0011	
140.000			.0206	-.1303	-.2403	-.0949		-.2301		-.7390	-.6600	-.4549	-.1011	.0011	
160.000			.0719	.0098	-.0919	.0084			-.1633	-.1.1190	-.7290	-.2232	-.1698	-.0283	
180.000								.2185							
198.000									-.0223						
162.000										-.1.0270	-.7416	-.3714	-.1336	-.0546	
168.000															
169.000															
174.000															
160.000	1.0790	.3910	1.084	.0765	.0514	1.385	.523	.4079		-.7651	-.7954	-.5335	-.1132	-.0823	
W/LB	.6880	.7900	.7610	.6230	.6620	.6230	.9630	1.0020	1.0210	1.0480					

PM1

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PM1															
20.000	1.0790	.8233	.0096	-.0819	-.1979	-.2385		-.2185		-.2308	-.2666	-.2291	-.1865	-.0621	-.0745
40.000			-.0296	-.1442	-.2194	-.2916		-.3136		-.2792			-.1772	-.0433	.0198
60.000			-.0574	-.1948	-.2863	-.3213		-.2845		-.2778	-.3923	-.2922			
80.000			-.0495	-.2277	-.3370	-.2670		-.2963		-.3147					
100.000			-.0127	-.2278	-.3347	-.2141		-.2728		-.4090	-.8300	-.2416	-.0846	-.0186	
120.000			-.0453	-.0814	-.2118	-.3703	-.2133	-.3080		-.5115	-.3417	-.3239	-.0618	.0011	
140.000			.0206	-.1303	-.2403	-.0949		-.2301		-.7390	-.6600	-.4549	-.1011	.0011	
160.000			.0719	.0098	-.0919	.0084			-.1633	-.1.1190	-.7290	-.2232	-.1698	-.0283	
180.000								.2185							
198.000									-.0223						
162.000										-.1.0270	-.7416	-.3714	-.1336	-.0546	
168.000															
169.000															
174.000															
160.000	1.0790	.3910	1.084	.0765	.0514	1.385	.523	.4079		-.7651	-.7954	-.5335	-.1132	-.0823	
W/LB	.6880	.7900	.7610	.6230	.6620	.6230	.9630	1.0020	1.0210	1.0480					

ALPHAX 9) = 0.040 BETA0 (1) = -0.080

SECTION (1) CRITTER PUBLISHER DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PM1															
20.000	1.0910	.6536	1.335	-.1046	-.1888	-.2130		-.1391		-.1202	-.1210	-.0978	-.0707	.0247	.0702
40.000			.2678	.0413	-.0904	-.1629		-.2008		-.0771					
60.000			.5541	.2189	.0787	-.0231		-.1307		-.0943	-.0900	-.0313	-.0169	.1148	.1886
80.000			.8296	.3926	.2194	1.052		.0152		-.0021					
100.000			.6481	.3826	.2149	1.300		.0403		-.0389	-.2840	-.1633	-.0910	-.0033	
120.000			.7838	.3479	.3428	1.781	1.543	.0614		-.0731	-.3747	-.2283	-.1296	-.0282	



ARC11-716 1A14 OI-TIB-618IES CRB. PUBLAGE (81844)

ALPHAO1 91 = 8.048 BETAO (1) = -8.080

SECTION (1) ORBITER PUBLAGE DEPENDOR VARIABLE CP

V/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2050	.2520	.3010	.3790	.4690	.5700
PWT															
120.000		.3770	.1304	.0821	.1373	.1620									
140.000															
160.000		.1343	.0321	-.0030	.1023										
181.000															
195.000															
182.000															
165.000															
145.000															
120.000	1.0910	.3423	.0197	-.0000	-.0166	.0797	.0853								
V/LB	.0000	.7000	.7010	.6230	.6620	.9230	.9430	1.0020	1.0210	1.0400					

ALPHAO1 91 = 7.060 BETAO (2) = -4.020

SECTION (1) ORBITER PUBLAGE DEPENDOR VARIABLE CP

V/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2050	.2520	.3010	.3790	.4690	.5700
PWT															
20.000		.1011	-.0302	-.1132	-.1906										
40.000		.2334	.0423	-.0882	-.1733										
60.000		.4374	.1293	.0209	-.0947										
80.000		.5063	.2412	.0965	-.0162										
100.000		.4639	.2468	.0787	-.0007										
120.000	.0889	.4104	.2179	-.0494	.0401										
140.000		.3149	.0306	.0332	.1040										
160.000		.1623	.0702	.0094	.1221										
V/LB	.0000	.7000	.7010	.6230	.6620	.9230	.9430	1.0020	1.0210	1.0400					

ALPHAO1 91 = 7.060 BETAO (2) = -4.020

SECTION (1) ORBITER PUBLAGE DEPENDOR VARIABLE CP

V/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2050	.2520	.3010	.3790	.4690	.5700
PWT															
20.000		.1011	-.0302	-.1132	-.1906										
40.000		.2334	.0423	-.0882	-.1733										
60.000		.4374	.1293	.0209	-.0947										
80.000		.5063	.2412	.0965	-.0162										
100.000		.4639	.2468	.0787	-.0007										
120.000	.0889	.4104	.2179	-.0494	.0401										
140.000		.3149	.0306	.0332	.1040										
160.000		.1623	.0702	.0094	.1221										
V/LB	.0000	.7000	.7010	.6230	.6620	.9230	.9430	1.0020	1.0210	1.0400					

ARC11-716 1A14 CR-T125-S128Z CDR. PUBL/CLATE 0821244)

ALPHAX 21 = 7.900 BETAO (2) = -4.020

SECTION (1)CROITER PUBL/CLATE DEPENDENT VARIABLE CP

W/LB	.6000	.0000	.0200	.0470	.0700	.1120	.1990	.1670	.1700	.2070	.2920	.3010	.3790	.4000	.5700
PWT															
100.000															
109.000															
174.000															
180.000	1.1900	.3004	.0041	.0502	.0300	.1292	.7006								
W/LB	.6000	.7000	.7010	.9250	.9000	.9250	.9450	1.0000	1.0210	1.0490					
PWT															
100.000															
109.000															
174.000															
180.000	1.1900	.3004	.0041	.0502	.0300	.1292	.7006								

ALPHAX 21 = 7.970 BETAO (2) = .020

SECTION (1)CROITER PUBL/CLATE DEPENDENT VARIABLE CP

W/LB	.6000	.0000	.0200	.0470	.0700	.1120	.1990	.1670	.1700	.2070	.2920	.3010	.3790	.4000	.5700
PWT															
100.000															
109.000															
174.000															
180.000	1.1900	.3004	.0041	.0502	.0300	.1292	.7006								
W/LB	.6000	.7000	.7010	.9250	.9000	.9250	.9450	1.0000	1.0210	1.0490					
PWT															
100.000															
109.000															
174.000															
180.000	1.1900	.3004	.0041	.0502	.0300	.1292	.7006								

ALPHAX 21 = 7.970 BETAO (2) = .020

SECTION (1)CROITER PUBL/CLATE DEPENDENT VARIABLE CP

W/LB	.6000	.0000	.0200	.0470	.0700	.1120	.1990	.1670	.1700	.2070	.2920	.3010	.3790	.4000	.5700
PWT															
100.000															
109.000															
174.000															
180.000	1.1900	.3004	.0041	.0502	.0300	.1292	.7006								
W/LB	.6000	.7000	.7010	.9250	.9000	.9250	.9450	1.0000	1.0210	1.0490					
PWT															
100.000															
109.000															
174.000															
180.000	1.1900	.3004	.0041	.0502	.0300	.1292	.7006								



08180441

CRG. PURCHASE

ALPHAO1 9 = 7.978 BETA10 (2) = .000

SECTION (1) - CRITER PURCHASE DEFORDOR VARIABLE CP

M/L	.0000	.7000	.7010	.0200	.0100	.0200	.0000	1.0000	1.0000	1.0000	1.0400
PWT											
00.000	.1040	.0000	-.0007	-.3700	-.0014	.0000	-.3074				
01.000	.0000	.0000	-.0400	-.2400	-.2442	-.2000	-.2700				
02.000	-.2710	-.0007	-.0001	-.0000	-.1400	-.0700	-.1100				
03.000	-.2100	-.0000	-.0000	-.0000	-.1700	-.1000	-.1000				
04.000			-.1110	-.0070	-.0070	-.1000	-.1000				
05.000											
06.000	-.1040	-.1900	-.0400	-.0000	-.1000	-.1000	-.1000				
07.000			.0010	-.0000	-.0000	-.1700	-.0117				
08.000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000				
09.000	-.0000	-.0000	.1000	.1000	-.0000	-.0000	-.0000				
100.000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000				

ALPHAO1 9 = 0.000 BETA10 (4) = 4.100

SECTION (1) - CRITER PURCHASE DEFORDOR VARIABLE CP

M/L	.0000	.0000	.0200	.0470	.0700	.1100	.1500	.1070	.1700	.2000	.2000	.3010	.3700	.4000	.0700
PWT															
00.000	1.1000	.0001	.1040	-.0070	-.1040	-.2070		-.1700				-.1000	-.0700	-.0042	.0100
01.000			.1000	-.0400	-.1000	-.2040		-.2040				-.1000			
02.000			.1000	-.0700	-.1000	-.2000		-.2000				-.1000			
03.000			.1210	-.0700	-.1000	-.2000		-.2000				-.1000			
04.000			.1000	-.0000	-.0000	-.1000		-.0000				-.1000			
05.000		.1000	.0000	-.0000	-.0000	-.1000		-.0000				-.1000			
06.000			.1140	-.1000	-.1000	-.0000		-.0000				-.1000			
07.000			.0000	-.0000	-.0000	-.0000		-.0000				-.1000			
08.000												-.1000			
09.000												-.1000			
100.000												-.1000			

ORIGINAL PAGE IS OF POOR QUALITY

ALPHA(X) IS = 0.000 BETA(O) (A) = 0.130

SECTION (1) CORRECTOR PURCHASE DEPENDENT VARIABLE CP

W/LB	.0250	.7500	.7010	.0250	.0000	.0250	.0430	1.0000	1.0210	1.0400
PWT										
100.000	-.1170	-1.006	-.0001	-.2070	-.4907	-1.074	-.2117	-.0000		
130.000		.3910	-.0004	-.5025	-.2465	-.2042				
150.000	-.0045	-.0046	1.706	.0405	-.4754	-.3367	-.2993			
160.000	-.0704		.0912	-.3476	-.4011	-.2204				
180.000	-.0000	-.0470	.0007	.2700						

ALPHA(X) IS = 0.000 BETA(O) (B) = 0.220

SECTION (1) CORRECTOR PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0250	.0250	.0470	.0750	.1000	.1250	.1500	.1750	.2000	.2250	.2500	.2750	.3010	.3190	.4000	.5700
PWT																	
100.000	1.0000	.3035	.0070	-.1007	-.1953	-.2936											
120.000		-.0406	-.1430	-.2099	-.3004												
140.000		-.0776	-.1907	-.2682	-.3133												
160.000		-.0737	-.2302	-.3576	-.2934												
170.000		-.0413	-.2377	-.3377	-.2202												
180.000		-.1174	-.1100	-.2445	-.3754	-.0026											
190.000		-.0003	-.2491	-.2703	-.0940												
200.000		-.0113	-.0750	-.1000	-.0000												
210.000																	
220.000																	
230.000																	
240.000																	
250.000																	
260.000																	
270.000																	
280.000																	
290.000																	
300.000																	

W/LB	.0000	.7500	.7010	.0250	.0000	.0250	.0430	1.0000	1.0210	1.0400
PWT										
100.000	-.0001	-.1100	-.2570	-.4000	-.3000	.0000	-.3130			
120.000		-.0004	-.0000	-.1334	-.3010	-.3020	-.2404			
140.000		-.2071	-.2000	-.3014	-.1012	-.3144	-.1447			
160.000		-.1003	-.2000	-.2331	-.2270	-.0015	-.1700			
180.000			-.1400	-.3130	-.3415	-.2207	-.2007			
190.000										
200.000										
210.000										
220.000										
230.000										
240.000										
250.000										
260.000										
270.000										
280.000										
290.000										
300.000										



REFERENCE DATA

SREF = 2.4210 36. FT. YMRP = 29.3600 INCHES
 LREF = 36.7090 INCHES YMRP = .0000 INCHES
 BREF = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

MICH = .950 ELEVON = .000
 RUDDER = .000 SPOERK = .000

ALPHAX (1) = -7.870 BETA (1) = -8.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1700	.2030	.2920	.3010	.3790	.4990	.9790
PHI	.0000	1.1790	.4894	.1201	.0019	-.0448	-.1136	-.1432	-.2643	-.2963	-.2241	-.1463	-.0343	.0003	
20.000				.1774	.0707	.0100	-.0610	-.2696	-.2154	-.1720	-.2626	-.3002	-.0783	.0341	.1037
40.000				.4177	1.483	.0696	-.0094	-.2139	-.1493	-.1262	-.6017	-.2697	.0635	.1321	
54.000				.9669	.9510	.2233	1.075	-.0308	-.1019	-.5131	-.3307	.0632	.1290		
70.000				.6835	.4437	.3014	.2014	.0437	-.0617	-.0872	-.4967	-.7277	.0456	.0737	
90.000				.9313	.7045	.4932	.2569	.2697	-.0303	-.0611	-.6225	-.5359	-.0050	.0326	
120.000				.6121	.4961	.6333	.4477	.4393							
140.000								.7466							
150.000															
156.000															
162.000															
165.000															
168.000															
174.000															
180.000															
X/LB	.6530	.7900	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.000	40.000	70.000	90.000	105.000	110.000	120.000	135.000	150.000	165.000	180.000
	-.0099	-.0287	-.1240	-.2304	-.3262	.0000	-.4413	-.2731	-.2944	.0000	.0000
	-.0418	.0144	.0143	-.1256	-.9037	-.4366	-.4672	.0000	.0000	.0000	.0000
	.0296	.0177	.1072	.2120	.0742	.0692	-.0236	.0000	.0000	.0000	.0000
	.0839	.0735	1.700	.2030	.0636	.0624	-.0579	.0000	.0000	.0000	.0000
		.2676	.1462	.0266	-.0040	-.0772					
	.0823	.1611	.4666	.1462	.0208	.0236	-.0567	-.3369	-.2449		
	.0734	.1969	.9980	.2229	.0604	.0612	-.0645				
	.0618	.3759	.2676	.1709	.1064	-.2077					
	.0473	.3331	.2535	.1077	-.3611						
		.3360	.5076								

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 1A14 01-712-912M25 CR8. FUSELAGE (RB1845)

ALPHAX 1) = -7.700 BETA 0 (2) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4950	.5760
PHI	.000	1.2320	.5363	.1394	.0268	-.0241	-.1271	-.1919	-.1641	-.2429	-.2715	-.1101	-.0006	.0139	
20.000				.1876	.0886	.0099	-.1289	-.2024	-.2640						
40.000				.3457	.1110	.0326	-.0956	-.2051	-.3545	-.3204	-.3742	-.0508	.0561	.0899	
55.000				.4678	.2308	.1158	-.0111	-.1393	-.2641						
70.000				.5462	.3018	.1663	.0787	-.0644	-.2363	-.7265	-.3944	.0377	.1376		
90.000				.7792	.5681	.3511	.1975	-.0596	-.2238	-.6313	-.5037	.0467	.1322		
120.000				.6209	.3694	.3405	.3272	.1712	-.2316	-.5519	-.6385	.0451	.1076		
140.000									-.1488						
150.000				.5663	.4735	.3971	.4223		-.3363	-.7809	-.5935	.0293	.0931		
151.000								.3582							
156.000								.6842							
162.000									-.7503	-.6815	-.4710	.0270	.0789		
165.000								.7596							
169.000							.8797								
174.000				.8174	.5357	.4468	.4046	.6807	-.8100	-.6704	-.4185	-.0017	.0767		
180.000				.6030	.7500	.7810	.6230	.6620	.9630	1.0210	1.0480				

ALPHAX 1) = -7.700 BETA 0 (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4950	.5760
PHI	.000	1.2450	.5390	.1246	.0220	-.0342	-.1899	-.1846	-.2695	-.3599	-.3675	-.0869	.0272	.0248	
20.000				.1991	.0472	-.0183	-.1831	-.1763	-.2394						
40.000				.2588	.0668	-.0314	-.1879	-.1617	-.4084	-.4463	-.4263	-.0849	.0592	.0604	
55.000				.3432	.1237	.0064	-.1084	-.2750	-.3435						
70.000				.4041	.1965	.0344	-.0354	-.1909	-.3349	-.6170	-.3299	-.0066	.1441		
90.000				.5899	.4288	.2141	.0545	-.1871	-.3661	-.7189	-.8724	-.0348	.1378		



ARC11-716 1A14 01-112-912M25 ORB. FUSELAGE (R01045)

ALPHAX (1) = -7.900 BETA0 (4) = 4.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
165.000															
166.000								.6583							
174.000							.6094								
180.000	1.2190	.7606	.5512	.4392	.4041	.4242									
X/LB	.6930	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.0000	-.0700	-.1346	-.2918	-.5374	-.4147	.0000	-.4232								
40.000	-.0909	-.1623	-.2512	-.4366	-.3986	-.4564	-.3693								
70.000	.0953	.0124	-.0241	.0084	-.2415	-.1849	-.2093								
90.000	.0909	.0444	-.0037	-.0471	-.2637	-.2076	-.2330								
105.000			.0369	-.1074	-.2937	-.2763	-.2898								
110.000															
120.000	.1002	.1177	-.0161	-.3030	-.4229	-.2977	-.3737								
135.000			.6130	.0490	-.9516	-.4120	-.4277								
150.000	.1074	.2020	.5146	.4270	-.3222	-.3362	-.4480								
165.000	.1125		.4232		-.1846	-.3434	-.3617								
180.000	.1168	.2136	.3666	.5779											

ALPHAX (1) = -7.900 BETA0 (5) = 0.180

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
20.000	1.1430	.4437	.0491	.0044	-.0736	-.1591									
40.000		.0266	-.0361	-.1034	-.2142										
60.000		.0592	-.0766	-.1505	-.2421										
70.000		.0766	-.0775	-.1774	-.2800										
90.000	.1361	.1475	-.0366	-.2200	-.1947										
120.000		.2247	-.0161	-.0874	-.0320										
140.000		.3144	.2759	.1699	.1890										
170.000															
196.000															
165.000															
169.000															
174.000															
180.000	1.1438	.7000	.4875	.4090	.3601	.3675									
X/LB	.6638	.7308	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.0000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
170.000															
196.000															
165.000															
169.000															
174.000															
180.000															



AFC11-716 1A14 04+12+SIENES ORG. FUSELAGE (R81245)

ALPHAO (2) = -4.020 BETA0 (1) = -8.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PMT										
120.000	-0.4623	0.4693	.4273	.1436	-.0176	0.0092	-.0629	-.2474		
135.000			.9209	.1514	0.0269	0.4667	-.0881			
150.000	-.0101	.1267	.3162	.1692	.1131	0.0884	-.2269			
165.000	-.0101	.2828		.1942	0.0635	-.3687				
180.000	-.0002	.1136	.2567	.4544						

ALPHAO (2) = -3.960 BETA0 (2) = -4.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2320	.3010	.3790	.4990	.5760
PMT															
20.000	1.2560	.5760	.1311	-.0147	-.0493	-.1436		-.1933		-.1374	-.2314	-.2900	-.1107	0.0302	.0356
40.000			.1630	.0377	-.0146	-.1496		-.2031		-.2055					
60.000			.3496	.0912	-.0168	-.1037		-.2126		-.2346	-.3016	-.3727	-.0647	0.0569	.1117
80.000			.4593	.2139	0.0965	-.0032		-.1196		-.2314					
90.000		.7317	.5134	.2654	.1292	0.0618		-.0575		-.2264	-.6793	-.4005	-.0001	0.0466	
100.000			.4765	.3032	.1547	0.0940		-.0535		-.2101	-.6332	-.4895	0.0064	0.0964	
120.000			.5464	.2964	.2616	.2812		.1670		-.2269	-.5704	-.6196	0.0168	0.0722	
140.000			.4665	.3774	.3099	.3464				-.3020	-.4932	-.6963	-.6844	-.0063	0.0720
160.000								.6973							
180.000								.3939							
190.000	1.2360	.7228	.4272	.3514	.3095	.3301		.7245							
200.000	.6630	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PMT										
40.000	0.0298	-.0201	-.1410	-.2954	-.3699	0.0000	-.3990		-.2563	-.2391
60.000	.0045	0.0296	-.0101	-.1629	-.0366	-.3963	-.4013		0.0000	0.0000
80.000	-.0275	-.1153	-.0018	.1049	-.1435	-.0011	-.0771			
100.000	.0093	-.0384	0.6447	0.8447	-.1684	0.3303	-.1160			
120.000			.1614	.0117	-.2250	-.0947	-.1370			
140.000	.0348	0.0911	.3243	0.1119	-.1954	-.0932	-.1990	-.3441		
160.000			.2679	.1615	-.0838	0.0884	-.1794	-.2759		
180.000	.0404	0.0566	.3905	.2490	-.0395	0.0613	-.3065			
200.000	.0604	.0604	.3367	.0170	0.0664	-.3749				
210.000	.0595	.1602	.3316	.4924						



(R01045)

ORB. FUSELAGE

ARC11-716 1A14 04+712+512M25

ALPHAO(2) = -3.870 BETA0 (3) = .010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.5780
PHI	.000	1.8440	.1754	.1082	-.0282	-.0782	-.2507	-.2032	-.2796	-.3375	-.3703	-.0915	-.0268	.0354	.0354
20.000				1.475	.1706	-.0436	-.2275	-.2046	-.1914	-.2673	-.3366	-.4267	-.0684	.0516	.0933
40.000				.2304	.0312	-.0449	-.2065	-.1611	-.3321	-.3243	-.6027	-.5111	-.0035	.1041	
55.000				.3260	.0836	-.0366	-.1409	-.1644	-.3243	-.3429	-.7555	-.6245	-.0256	.1088	
70.000				.3754	.1239	-.0246	-.0625	-.1797	-.4364	-.6682	-.9427	-.0336	.0933		
90.000				.3765	.1653	.0104	-.0227	-.1714	-.5216	-.7544	-.8636	-.5700	-.0104	.0933	
120.000				.4371	.2234	.1930	.1642	.0448							
140.000				.4402	.3435	.2968	.3002	.2201							
150.000								.5826							
151.000								.3151							
156.000															
162.000															
165.000															
169.000															
174.000															
180.000				1.2440	.7143	.4389	.3615	.3169	.6729	-.7965	-.9032	-.4744	.0196	.0997	
X/LB	.6830	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2920	.3010	.3790	.4990	.5780
PHI	.000	1.8170	.5446	.1003	-.0019	-.1108	-.1654	-.2608	-.3277	-.3972	-.1932	-.1455	-.0345	-.0184	
20.000				1.020	-.0165	-.1208	-.2294	-.2817	-.3790	-.3119	-.3682	-.4073	-.1342	.0016	.0407
40.000				.1445	-.0407	-.1325	-.2465	-.2013	-.3119	-.3682	-.4073	-.1342	.0016	.0407	
55.000				.1928	-.0212	-.1390	-.2175	-.3063	-.3934	-.3682	-.4073	-.1342	.0016	.0407	
70.000				.2371	-.0008	-.1531	-.1517	-.2316	-.3686	-.8480	-.4370	-.1225	.0931		
90.000				.3904	.2905	.0300	-.1467	-.1331	-.4967	-.7641	-.5212	-.1969	.1093		

ALPHAO(2) = -3.940 BETA0 (4) = 4.080

ARC11-716 1A14 OR-T18-312823 CRG. FUSELAGE (R81843)

ALPHAXI (2) = -3.940 BETA0 (4) = 4.090

SECTION : 1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PW1															
120.000															
140.000															
150.000															
171.000															
156.000															
165.000															
169.000															
174.000															
180.000															
W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PW1															
120.000															
140.000															
150.000															
171.000															
156.000															
165.000															
169.000															
174.000															
180.000															

SECTION : 2)ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PW1															
40.000															
70.000															
90.000															
109.000															
110.000															
120.000															
135.000															
150.000															
168.000															
180.000															
W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PW1															
40.000															
70.000															
90.000															
109.000															
110.000															
120.000															
135.000															
150.000															
168.000															
180.000															

ALPHAXI (2) = -3.920 BETA0 (5) = 9.170

SECTION : 3)ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PW1															
80.000															
40.000															
95.000															
70.000															
90.000															
129.000															
140.000															
150.000															
154.000															
165.000															
W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PW1															
80.000															
40.000															
95.000															
70.000															
90.000															
129.000															
140.000															
150.000															
154.000															
165.000															



(061845)

ORB. FUELSLAGE

MFC11-716 1A14 CR-TIE-SIZES

ALPHA(X) 3) = -.350 BETA(X) (1) = -0.100

SECTION (1) ORBITER FUELSLAGE

DEPENDENT VARIABLE CP

W/LB	.6930	.7300	.7610	.8230	.8420	.9230	.9630	1.0020	1.0210	1.0490
PWT										
0.000	.1022	.0443	-.0639	-.2724	-.4345	.0000	-.4047		-.2262	-.2931
40.000	-.1221	1.4866	.0946	-.0756	-.8481	-.3793	-.4173		.0000	.0000
70.000	-.1083	-.3330	-.0408	1.4011	.0030	.0755	-.0162			
90.000	-.0806	-.2692	.0445	1.4033	-.0229	.0411	-.0622			
105.000			.1748	.0814	-.0530	-.0262	-.0817			
110.000										-.3197
120.000	-.1729	-.1316	.3461	.1294	-.0196	.0014	-.0640			-.2412
135.000			.4476	.0693	-.0056	.0224	-.1030			
150.000	-.0937	.0437	2.4899	.0990	.0650	.0435	-.2324			
165.000	-.0611		.2322		1.4903	.0291	-.3768			
180.000	-.0429	.0883	.2537	.3942						

ALPHA(X) 3) = -.350 BETA(X) (2) = -4.080

SECTION (1) ORBITER FUELSLAGE

DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1760	.2030	.2520	.3010	.3790	.4990	.5760
PWT															
0.000	1.2240	.6068	.1232	-.0437	-.0809	-.1639		-.1823		-.1297	-.2390	-.2412	-.0000	.0298	.0712
20.000			.1902	.0182	-.0475	-.2037		-.1973		-.1334					
40.000			.3639	.0805	.0013	-.1009		-.1851		-.1273	-.2714	-.3390	-.0716	.0773	.1497
50.000			.4678	.2105	.0839	-.0301		-.0996		-.1599					
70.000			.5047	.2323	.1115	.0316		-.0326		-.1766	-.6336	-.3427	-.0494	.0760	
90.000		.7080	.4789	.2482	.1039	.0983		-.0255		-.1081	-.8040	-.4136	-.0363	.0762	
120.000			.4916	.2692	.1968	.2494		.1803		-.2410	-.5694	-.2333	-.0402	.0292	
140.000										-.3109					
150.000			.3922	.2868	.2234	.2859				-.4648	-.9622	-.7062	-.0334	.0467	
171.000										.3166					
182.000										.3710					
195.000															
198.000															
199.000															
174.000															
180.000															
190.000															
W/LB	.6880	.7500	.7610	.8230	.8420	.9420	.9630	.9630	1.0020	1.0210	1.0490				
PWT															
0.000	.8943	.6148	-.0560	-.3070	-.3774	.0000	-.3732			-.2423	-.2470				
40.000	.8794	.6935	.0364	-.1294	-.0776	-.3433	-.3979			.0000	.0000				
70.000	-.1028	-.2728	-.0422	.0822	-.2235	-.0376	-.0761								
90.000	-.0854	-.1921	.0160	.0736	-.2497	-.0742	-.1113								
105.000			.1273	-.0005	-.3044	-.1293	-.1346								
110.000															



TABULATED PRESSURE DATA - 1A14A - VOL. 3

(R81843)

CRB. FUSELAGE

ARC11-716 1A14 CR-112-312MS

ALPHAO1 31 = -.320 BETA0 (21) = -4.030

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

1/LS	.6830	.7300	.7810	.8230	.8650	.9070	.9490	1.0020	1.0210	1.0490
PHI										
120.000	-.0267	-.0121	.0249	.0077	-.3199	-.1905	-.1295	-.2828		
135.000		.3115	.1071	-.1677	-.1307	-.1776				
150.000	-.0082	.1006	.2679	.1729	-.1304	-.1179	-.2979			
165.000	.0042		.2835		-.0686	-.1232	-.3741			
180.000	.0144	.1132	.2831	.4221						

ALPHAO1 31 = -.330 BETA0 (21) = .840

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

1/LS	.6830	.7300	.7810	.8230	.8650	.9070	.9490	1.0020	1.0210	1.0490
PHI										
120.000	1.2370	.6054	.0977	-.0650	-.1096	-.8001		-.1747		
135.000		.1414	-.0230	-.0900	-.2319		-.2014			
150.000		.2463	.0093	-.0903	-.2101		-.1881			
165.000		.3163	.0576	-.0664	-.1344		-.1652			
180.000		.3951	.0972	-.0401	-.0895		-.1235			
PHI		.8226	.3434	.1121	-.0345	-.0316	-.1313			
120.000		.3794	.1236	.0833	.1383		.0983			
140.000		.3654	.2471	.1791	.2326		.2134			
160.000							.3267			
180.000							.2967			
PHI										
120.000										
140.000										
160.000										
180.000										

1/LS	.6830	.7300	.7810	.8230	.8650	.9070	.9490	1.0020	1.0210	1.0490
PHI										
120.000	1.2370	.6054	.0977	-.0650	-.1096	-.8001		-.1747		
135.000		.1414	-.0230	-.0900	-.2319		-.2014			
150.000		.2463	.0093	-.0903	-.2101		-.1881			
165.000		.3163	.0576	-.0664	-.1344		-.1652			
180.000		.3951	.0972	-.0401	-.0895		-.1235			
PHI		.8226	.3434	.1121	-.0345	-.0316	-.1313			
120.000		.3794	.1236	.0833	.1383		.0983			
140.000		.3654	.2471	.1791	.2326		.2134			
160.000							.3267			
180.000							.2967			
PHI										
120.000										
140.000										
160.000										
180.000										

1/LS	.6830	.7300	.7810	.8230	.8650	.9070	.9490	1.0020	1.0210	1.0490
PHI										
120.000	.0705	.0074	-.1114	-.3390	-.3995	.0000	-.3447			
135.000	.0448	.0259	-.0455	-.2325	-.4293	-.4819	-.3436			
150.000	-.0842	-.1983	-.0948	.0395	-.2723	-.2948	-.2090			
165.000	-.0418	-.1084	-.0225	.0013	-.2972	-.3292	-.3180			
180.000		.0676	-.0774	-.3487	-.3782	-.3418				
PHI										
120.000	.0091	.0437	.1671	-.0790	-.3099	-.2693	-.4054			
135.000		.3163	.1313	-.4023	-.2776	-.3406				
150.000	.0413	.1368	.3689	.2485	-.3413	-.2844	-.3436			
165.000	.0413	.3125		-.2117	-.3199	-.3394				
180.000	.0444	.1315	.2966	.4784						

ALPHAO1 3) = -.380 METHO (4) = 4.057

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1970	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PWT															
80.000	1.2180	.3795	.0945	-.0005	-.1470	-.1912		-.1696		-.1949	-.2335	-.2173	-.1220	-.0041	.0227
80.000			.0875	-.0419	-.1555	-.2334		-.1995		-.1393					
80.000			.1382	-.0717	-.1901	-.2486		-.1711		-.1068	-.3246	-.3042	-.1016	.0268	.0759
92.000			.1798	-.0571	-.2046	-.2159		-.2001		-.3074					
70.000			.2108	-.0391	-.1986	-.1484		-.2042		-.3435	-.7789	-.5385	-.0548	.0487	
90.000		.2419	.1767	-.0383	-.1779	-.1216		-.2237		-.4028	-.8152	-.5259	-.0779	.0499	
120.000			.2917	.0460	-.0385	.0534		-.0639		-.5667	-.7941	-.4863	-.1548	.0692	
140.000										-.6002					
130.000			.2968	.1936	.1108	.1793		.0927		-.6981	-.9304	-.7632	-.0471	.0741	
131.000								.6264							
194.000															
162.000										-.6308	-.9429	-.9816	-.0133	.0482	
169.000															
168.000								.6097							
174.000							.7588								
160.000	1.2180	.3878	.3540	.2885	.2193	.2828		.0216		-.9408	-.8112	-.9609	-.0001	.0487	
160.000		.6630	.7800	.7810	.6620	.6620	.9630	1.0210	1.0480						

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1970	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PWT															
80.000	.0866	-.0288	-.1753	-.2118	-.3827	.0000	-.3746		-.2827	-.2636					
80.000		-.0109	-.0080	-.1380	-.3788	-.3607	-.2802		.0000	.0000					
80.000		-.0723	-.1322	-.1217	-.0259	-.3143	-.3488	-.3592							
90.000		-.0254	-.0790	-.0723	-.3421	-.3700	-.3971								
105.000			-.0002	-.1546	-.3877	-.4284	-.4297								
110.000															
120.000	.0124	.0491	.0436	-.2644	-.4738	-.4033	-.4816		-.2970						
134.000			.2016	.0480	-.5786	-.4237	-.4733		-.3136						
130.000		.0813	.1244	.2854	-.4220	-.4736	-.4230								
166.000		.0206		.3133											
168.000		.0229	.1179	.2828	.4413										

ALPHAO1 3) = -.380 METHO (3) = 9.180

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1970	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PWT															
80.000	1.1280	.9231	.6493	-.0407	-.1887	-.2033		-.1999		-.2234	-.2484	-.2788	-.2804	-.0832	-.0401
80.000			.0148	-.0802	-.1604	-.2707		-.3293		-.3284					
80.000			.0077	-.1390	-.2168	-.3236		-.2158		-.2143	-.3718	-.3408	-.2191	-.0433	.0231
92.000			.0042	-.1516	-.2392	-.2893		-.2111		-.3388					
70.000			.0723	-.1488	-.2700	-.1899		-.2082		-.4124	-.6882	-.4113	-.1994	.0394	
90.000		.8794	.8788	-.1233	-.2907	-.2492		-.2884		-.4812	-.7093	-.5322	-.2383	.0793	



ALPHA(X) 4) = 4.170 BETA(D) (1) = -0.100

SECTION (1) COBWEB PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1100	.1900	.1070	.1700	.2050	.2900	.3010	.3700	.4900	.5700
PWT								.0075							
165.000															
169.000								.0075							
174.000															
180.000	1.1200	.9100	.1025	.1107	.0975	.1700	.7020								
185.000	.0000	.7500	.7010	.0250	.0000	.9250	.9050	1.0000	1.0210	1.0210	1.0400				
PWT															
189.000	.1300	.0410	-0.0900	-0.2000	-0.4337	.0000	-0.3700								
193.000	.1807	.1039	-.0717	-.0406	-.3042	-.3054									
197.000	-.1045	-.4372	-.9101	-.0640	-.0042	-.0300									
200.000	-.1428	-.3010	-.1901	-.0071	-.0640	-.0712									
104.000															
110.000															
120.000	-.2174	-.0015	.1202	.1154	-.2722	-.0091	-.0707								
136.000															
170.000	-.1070	-.0025	.1793	-.0002	-.0144	.0100	-.2372								
168.000	-.1300	.1750													
160.000	-.1100	-.0010	.1900	.2073											

ALPHA(X) 4) = 4.220 BETA(D) (2) = -4.000

SECTION (1) COBWEB PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1100	.1900	.1070	.1700	.2050	.2900	.3010	.3700	.4900	.5700
PWT															
20.000															
25.000	1.1000	.6442	.1207	-0.0401	-.1047	-.1032									
30.000															
35.000															
40.000															
45.000															
50.000															
55.000															
60.000															
65.000															
70.000															
75.000															
80.000															
85.000															
90.000															
95.000															
100.000															
105.000															
110.000															
115.000															
120.000															
125.000															
130.000															
135.000															
140.000															
145.000															
150.000															
155.000															
160.000															
165.000															
170.000															
175.000															
180.000															



(R81845)

ORB. FUSELAGE

ARC11-716 1A14 ORBITER/SIZES

ALPHAO (4) = 4.230 BETA0 (2) = -4.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1197	.0391	-.0823	-.3806	-.3875	.0000	-.3759		-.2229	-.2293
40.000	.1326	.1322	.0468	-.1488	-.8527	-.3374	-.3731		.0000	.0000
70.000	-.1670	-.4016	-.3528	.0420	-.2548	-.0909	-.0794			
90.000	-.1326	-.3442	-.1630	.0256	-.3131	-.2582	-.0996			
105.000		.0224	-.0958	-.3785	-.4032	-.1157				
110.000										-.2823
120.000	-.1884	-.1842	.1375	.0008	-.4224	-.3216	-.1070			-.2316
135.000		.4036	.0297	-.4079	-.2225	-.1824				
150.000	-.0825	.0277	.2475	.1017	-.3199	-.2029	-.2885			
165.000	-.0460		.2104		-.1734	-.2199	-.3340			
180.000	-.0226	.0943	.2028	-.1106						

ALPHAOX (4) = 4.130 BETA0 (3) = .010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2050	.2320	.3010	.3790	.4990	.3780
PHI															
.000	1.7080	.6566	.1503	-.0297	-.1000	-.2191		-.1465	-.1495	-.1734	-.1165	-.0430	.0351	.0944	
20.000		.1870	.0068	-.0740	-.2567		-.1747		-.1347						
40.000		.2823	.0397	-.0565	-.2305		-.1705		-.1419	-.2692	-.2178	-.0634	.0837	.1328	
55.000		.3266	.0781	-.0590	-.1877		-.1566		-.1707						
70.000		.3368	.0944	-.0309	-.1142		-.1197		-.2346	-.6871	-.3978	-.0634	.0427		
90.000	.4786	.3047	.0671	-.0774	-.0481		-.1186		-.2643	-.6891	-.4782	-.0889	.0986		
120.000		.3136	.0566	.0246	.1176		.0738		-.3974	-.6771	-.5542	-.1663	.0479		
140.000									-.3150						
150.000		.2580	.1501	.0655	.1832				-.8307	-1.0290	-.5296	-.1262	.0812		
151.000								.1947							
156.000								.5362							
162.000									.2643						
165.000										-.6802	-.6913	-.5370	-.0781	.0782	
169.000															
174.000						.7303									
180.000	1.2080	.9113	.2277	.1706	.1580	.2256		.6039							
X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	.1130	.0443	-.0783	-.3480	-.3615	.0000	-.3589		-.2440	-.2485					
40.000	.1830	.0707	-.0180	-.2595	-.4744	-.4112	-.3561		.0000	.0000					
70.000	-.1981	-.3620	-.2413	-.0024	-.3044	-.3387	-.2299								
90.000	-.1118	-.2706	-.1436	-.0484	-.3485	-.3976	-.4020								
105.000		-.0234	-.1332	-.4024	-.4330	-.4401									
110.000															-.2381

ORIGINAL PAGE IS OF POOR QUALITY

(R21845)

ORB. FUSELAGE

ALPHA(4) = 4.150 BETA(3) = .010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6930	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-0.0605	-0.0547	.0692	-.1334	-.4463	-.3967	-.4676	-.1737		
135.000		.4440	.0545	-.4333	-.9334	-.4182				
150.000	-0.0095	.0334	.2934	.1617	-.3791	-.3624	-.3727			
165.000	-0.0017		.2267		-.2621	-.3770	-.2805			
180.000	-0.0039	.0692	.2114	.4132						

ALPHA(4) = 4.140 BETA(4) = 4.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.1830	.6151	.1037	-.0263	-.1567	-.2137		-.1767		-.1242	-.1447	-.1333	-.0994	.0096	.0460
20.000		.0982	-.0411	-.1561	-.2610			-.2113		-.1392					
40.000		.1344	-.0655	-.1827	-.2882			-.1913		-.1561	-.2981	-.2414	-.0985	.0431	.0972
55.000		.1555	-.0984	-.2199	-.2967			-.2006		-.2071					
70.000		.1809	-.0982	-.2099	-.1816			-.1748		-.3131	-.7909	-.4887	-.0815	.0371	
90.000	.2546		.1264	-.0320	-.2364	-.1357		-.1907		-.3365	-.7628	-.5226	-.1003	.0636	
120.000		.2060	-.0376	-.0992	.0326			-.0364		-.5329	-.7866	-.4181	-.2013	.0766	
140.000										-.7386					
150.000		.2034	.1034	.0226	.1315			.0712		-.9333	-.9779	-.4488	-.1499	.0789	
156.000								.4126							
162.000															
165.000								.5796							
169.000															
174.000															
180.000	1.130	.4723	.2474	.637	.1143	.2120		.6961							
X/LB	.6930	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.000	-.0700	-.0224	-.1578	-.5071	-.3423	.0000	-.3987								
40.000	.0927	.0001	-.1090	-.3437	-.3703	-.4027	-.2954								
70.000	-.1428	-.2807	-.2037	-.0531	-.3451	-.3856	-.4108								
90.000	-.0944	-.2022	-.1366	-.1104	-.3715	-.4173	-.4676								
105.000			-.0816	-.1960	-.4137	-.4792	-.4632								
110.000															
120.000	-.0333	-.0362	.0324	-.2297	-.4819	-.4637	-.5378	-.2615							
135.000			.4544	.0092	-.9324	-.4634	-.5038								
150.000	-.0102	.0608	.3078	.1960	-.4813	-.5126	-.4063								
165.000	-.0091		.2417		-.3331	-.5392	-.2692								
180.000	-.0236	.6911	.2134	.4141											



(R81845)

ORB. FUSELAGE

ARC11-716 1A14 OR-712+512M25

ALPHA(X) = 0.150 BETA(O) = -0.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650	.0700	.0750	.0800	.0850	.0900	.0950	.1000																																																																																
PHI	.000	1.1000	.6448	.1479	-.1053	-.1548	-.2091	-.2531	-.2935	-.3298	-.3618	-.3894	-.4126	-.4314	-.4459	-.4562	-.4624	-.4646	-.4629	-.4574	-.4482	-.4355	-.4194	-.4000	-.3776	-.3523	-.3253	-.2967	-.2667	-.2354	-.2029	-.1694	-.1350	-.0998	-.0640	-.0278	.0086	.0342	.0598	.0854	.1110	.1366	.1622	.1878	.2134	.2390	.2646	.2902	.3158	.3414	.3670	.3926	.4182	.4438	.4694	.4950	.5206	.5462	.5718	.5974	.6230	.6486	.6742	.7000	.7256	.7512	.7768	.8024	.8280	.8536	.8792	.9048	.9304	.9560	.9816	.1007																									
X/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650	.0700	.0750	.0800	.0850	.0900	.0950	.1000	.1050	.1100	.1150	.1200	.1250	.1300	.1350	.1400	.1450	.1500	.1550	.1600	.1650	.1700	.1750	.1800	.1850	.1900	.1950	.2000	.2050	.2100	.2150	.2200	.2250	.2300	.2350	.2400	.2450	.2500	.2550	.2600	.2650	.2700	.2750	.2800	.2850	.2900	.2950	.3000	.3050	.3100	.3150	.3200	.3250	.3300	.3350	.3400	.3450	.3500	.3550	.3600	.3650	.3700	.3750	.3800	.3850	.3900	.3950	.4000	.4050	.4100	.4150	.4200	.4250	.4300	.4350	.4400	.4450	.4500	.4550	.4600	.4650	.4700	.4750	.4800	.4850	.4900	.4950	.5000

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650	.0700	.0750	.0800	.0850	.0900	.0950	.1000																																																																																
PHI	.000	1.1680	.6776	.1922	-.0395	-.1109	-.1886	-.2621	-.3314	-.3967	-.4580	-.5153	-.5686	-.6179	-.6632	-.7045	-.7418	-.7751	-.8044	-.8297	-.8510	-.8683	-.8816	-.8909	-.8962	-.8975	-.8948	-.8881	-.8784	-.8657	-.8490	-.8283	-.8036	-.7749	-.7422	-.7055	-.6648	-.6191	-.5684	-.5127	-.4520	-.3863	-.3156	-.2399	-.1592	-.0735	.0162	.1099	.2076	.3093	.4150	.5247	.6374	.7531	.8718	.9935	.1110	.1327	.1583	.1879	.2216	.2593	.3010	.3467	.3954	.4471	.5018	.5595	.6202	.6839	.7506	.8203	.8930	.9687	.1044	.1181	.1358	.1575	.1831	.2127	.2464	.2841	.3258	.3705	.4182	.4689	.5226	.5793	.6390	.7017	.7674	.8361	.9078	.9825	.1062						
X/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650	.0700	.0750	.0800	.0850	.0900	.0950	.1000	.1050	.1100	.1150	.1200	.1250	.1300	.1350	.1400	.1450	.1500	.1550	.1600	.1650	.1700	.1750	.1800	.1850	.1900	.1950	.2000	.2050	.2100	.2150	.2200	.2250	.2300	.2350	.2400	.2450	.2500	.2550	.2600	.2650	.2700	.2750	.2800	.2850	.2900	.2950	.3000	.3050	.3100	.3150	.3200	.3250	.3300	.3350	.3400	.3450	.3500	.3550	.3600	.3650	.3700	.3750	.3800	.3850	.3900	.3950	.4000	.4050	.4100	.4150	.4200	.4250	.4300	.4350	.4400	.4450	.4500	.4550	.4600	.4650	.4700	.4750	.4800	.4850	.4900	.4950	.5000

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ARC11-716 1A14 0A+11E+S12W2S ORB. FUSELAGE (RB1845)

ALPHAO(5) = 0.130 BETAO (2) = -4.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
120.000			.3376	.0616	.0430	.1244		.1711		-.2323	-.6067	-.7396	-.3950	-.1266	
140.000										-.3303					
150.000			.1621	.0617	.0140	.1465				-.4242	-.9740	-.5767	-.3064	.0145	
171.000									.2603						
156.000								.6059	.3132						
162.000										-.9191	-.7599	-.5635	-.2940	.0444	
169.000								.6394							
174.000						.7214									
190.000	1.1680	.4179	.1157	.0627	.0317	.1908		.5073		-1.0480	-.8686	-.5150	-.2345	.0790	
X/LB	.6630	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000															
40.000	.1267	.0460	-.0910	-.3422	-.4077	.0000	-.3472		-.2090	-.2143					
60.000	.1520	.1347	.0317	-.1745	-.6726	-.3975	-.3771		.0000	.0000					
70.000	-.2080	-.4943	-.5356	.0067	-.1907	-.1325	-.1257								
90.000	-.1754	-.4148	-.2825	-.0490	-.2419	-.2046	-.1552								
105.000			-.0690	-.1936	-.2997	-.2935	-.1716								
110.000								-.2847							
120.000	-.2477	-.2531	-.0112	-.0108	-.4111	-.2394	-.1653	-.2169							
135.000			.2568	-.0483	-.4663	-.1783	-.2043								
150.000	-.1025	-.0590	.1630	.0375	-.3604	-.2354	-.2648								
165.000	-.0837	.1124		-.2494	-.2465	-.2893									
180.000	-.0615	-.0241	.1169	.3995											

ALPHAO(9) = 0.140 BETAO (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000															
20.000			.1391	-.0368	-.1089	-.2202		-.1777		-.1324	-.1205	-.0760	-.0369	.0644	.1059
40.000			.1962	.0095	-.0676	-.2591		-.2014		-.1162					
50.000			.3035	.0522	-.0409	-.2600		-.1606		-.1185	-.2245	-.1507	-.0667	.0906	.1670
70.000			.3334	.0693	-.0429	-.1969		-.1412		-.1434					
90.000	.4369	.3276	.0907	-.0513	-.1275		-.1038			-.1937	-.6358	-.3677	-.1449	.0269	
100.000		.2834	.0801	-.1020	-.0993		-.0916			-.2156	-.6636	-.4295	-.1262	.0395	
120.000		.2471	.0318	-.0349	.0662		.0912			-.3691	-.0912	-.5417	-.2144	.0106	
140.000								-.4982							
150.000		.1706	.0600	.0065	.1396					-.8506	-.9405	-.5328	-.2637	.0795	
191.000								.5209	.1632						
196.000															
182.000															



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(R81845)

ORB. FUSELAGE

ARC11-716 1A14 04+112+512+5

ALPHAO (5) = 0.140 BETAO (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB .0000 .0000 .0250 .0470 .0700 .1120 .1590 .1870 .1760 .2050 .2920 .3010 .3790 .4990 .5760

PHI

165.000 .0118 .7081

169.000

174.000

180.000

W/LB

.6530 .7300 .7810 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI

.000 .1366 .0649 -.0410 -.3500 -.3450 .0000 -.3392

40.000

70.000

90.000

105.000

110.000

120.000

135.000

150.000

165.000

180.000

ALPHAO (5) = 0.140 BETAO (4) = 4.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB .0000 .0000 .0250 .0470 .0700 .1120 .1590 .1870 .1760 .2050 .2920 .3010 .3790 .4990 .5760

PHI

.000 1.1470 .6336 .0949 -.0319 -.1410 -.2416

20.000

40.000

55.000

70.000

90.000

120.000

140.000

150.000

156.000

162.000

169.000

174.000

180.000

W/LB

.6530 .7300 .7810 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI

.000 1.1470 .3979 .1478 .0677 .0144 .1488

ARC11-716 IA14 01+712+312N25 (R61845)

ALPHAO (5) = 0.140 BETA0 (4) = 4.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP
 X/LB .6530 .7500 .7610 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI									
.000	.0461	-.0233	-.1600	-.5185	-.3681	.0000	.0000	-.2375	-.2329
40.000	.0661	.0160	-.0899	-.3507	-.3626	-.4029	-.2975	.0000	.0000
70.000	-.1991	-.3962	-.3343	-.0893	-.3783	-.4314	-.2449		
90.000	-.1474	-.3068	-.2234	-.1445	-.4218	-.4739	-.3685		
105.000			-.1080	-.2302	-.4792	-.5262	-.4606		
110.000							-.2534		
120.000	-.0772	-.1045	-.0232	-.2376	-.5216	-.5013	-.5479		
135.000			.4108	.0001	-.5240	-.4806	-.5133		
150.000	-.0373	.0030	.2270	.1209	-.4328	-.5152	-.3850		
165.000	-.0393		.1463		-.3304	-.5340	-.2527		
180.000	-.0264	-.0220	.1067	.3427					

ALPHAO (5) = 0.120 BETA0 (5) = 0.270

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.0630	.5712	.0191	-.1089	-.2086	-.2707		-.1710		-.1399	-.1653	-.1697	-.1456	-.0391	-.0292
20.000			-.0466	-.1302	-.2149	-.3176		-.2397		-.1697					
40.000			-.0614	-.1932	-.2430	-.3915		-.2291		-.2101	-.3066	-.2747	-.1719	-.0036	.0532
55.000			-.0400	-.2300	-.3056	-.4112		-.2248		-.2299					
70.000			-.0261	-.2311	-.3040	-.3205		-.1948		-.3059	-.7390	-.4555	-.1447	.0032	
90.070		-.1146	-.0861	-.2280	-.3543	-.2174		-.2132		-.3870	-.8029	-.4423	-.1271	.0394	
120.000			-.0591	-.2164	-.2763	-.0914		-.1307		-.6360	-.6777	-.5317	-.1574	.0631	
140.000										-.9332					
150.000			.0173	-.0378	-.1747	-.0128				-.1014					
151.000								.2574							
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.0530	.2491	.0840	-.0099	-.0393	.0849	.5443								

X/LB .6530 .7500 .7610 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0480

PHI									
.000	.0102	-.0467	-.2120	-.6048	-.4222	.0000	-.3594		
40.000	.0409	-.0106	-.1201	-.3703	-.3623	-.3922	-.2946		
70.000	-.2103	-.2769	-.2397	-.1213	-.4328	-.4410	-.2377		
90.000	-.1628	-.2120	-.1709	-.1619	-.4690	-.4844	-.3459		
105.000			-.0844	-.2423	-.5199	-.5454	-.4334		
110.000							-.2746		



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(R81845)

ARC11-716 1A14 CR-T12-S12MS CR8. FUSELAGE

ALPHAO(5) = 0.120 BETMO (5) = 0.270

SECTION (1) CRITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6930	.7500	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0460
PWT										
120.000	-.0868	-.0789	.0362	-.2999	-.5321	-.5451	-.6099	-.6099	-.2437	
135.000			.4464	.0244	-.5907	-.5547	-.6096			
150.000	-.0908	-.0345	.1896	.0326	-.5023	-.6265	-.4101			
165.000	-.1370		.0600		-.4042	-.5660	-.2770			
180.000	-.1332	-.0851	.0396	.2304						

REFERENCE DATA

SRP = 2.4210 SQ. FT. XREP = 29.3600 INCHES
 LREP = 36.7090 INCHES YREP = .0000 INCHES
 BRP = 36.7090 INCHES ZREP = .0000 INCHES
 SCALE = .0500 SCALE

MACH = .975 ELEVON = .000
 RUDDER = .000 SPDERK = .000

ALPHAX(1) = -7.970 BETA0(1) = -8.050

PARAMETRIC DATA

SECTION (1) ORGITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PHI	.0000	1.1960	.5326	.1519	.0365	-.0107	-.0757	-.0914	-.2641	-.2253	-.2743	-.2134	-.0245	.0209	
20.000			.2167	.1030	.0365	-.0468		-.2357	-.1636						
40.000			.4492	.1776	.0966	.0153		-.1675	-.1109	-.2043	-.2620	-.2061	.0744	.1323	
55.000			.6165	.3791	.2528	.1336		-.0151	-.1216						
70.000			.7041	.4636	.3237	.2274		.0759	-.0907	-.5411	-.2534	-.1923	.1904		
90.000		.9495	.7243	.5143	.3566	.2935		.0943	-.0616	-.4806	-.3233	-.1733	.1444		
120.000			.7362	.5332	.4371	.4414		.3194	-.0507	-.4107	-.6825	-.2090	.0971		
140.000									-.0098						
160.000			.6336	.5166	.4555	.4710		.4705	-.0367	-.7663	-.5019	-.2417	.0753		
190.000								.7664							
196.000									.51**						
162.000										-.6411	-.6632	-.5065	-.2640	.0531	
169.000								.104							
174.000						.6969									
190.000		1.1960	.6130	.5136	.4362	.3996	.4207	.91.7	-.8413	-.6353	-.4731	-.3441	.0422		
X/LB	.6650	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PHI	.0186	-.0040	-.0876	-.1946	-.3315	.0000	-.4364		-.3192	-.3251					
40.000			.0317	-.0822	-.8408	-.5966	-.4843		.0000	.0000					
70.000		.0477	.1411	.2439	-.1036	.1233	.0186								
90.000		.1106	.1070	.2026	.2353	.0936	-.0132								
104.000			.3012	.1763	.0563	.0376	-.0396								
110.000		.1111	.1279	.4671	.1776	.0623	-.0165	-.3439							
120.000			.6235	.2701	.1162	-.0274		-.2280							
135.000		.1122	.2347	.4154	.3046	.2032	.1441								
150.000			.0945	.3700	.2897	.1466	-.3339								
160.000		.0943	.1973	.3753	.5407										

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 OF POOR QUALITY



DATE 08 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

MRC11-716 1A14 04-T18-S12M2 CRG. PURCHASE (R31848)

ALPHAO(1) = -7.960 BETA0 (2) = -4.020

SECTION (1) CRIBITER PURCHASE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1790	.1870	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.2300	.9031	.1683	.0540	.0096	-.0922	-.0994	-.1654	-.1900	-.3474	-.2040	-.0126	.0342	
20.000			.2146	.0937	.0306	-.1042	-.1546	-.2001	-.2724	-.2751	-.3327	-.2651	.0703	.1141	
40.000			.3717	.1367	.0594	-.0746	-.1703	-.2266	-.1996	-.0761	-.3623	-.2096	.1806	.1549	
56.000			.4816	.2332	.1362	.0149	-.0364	-.0319	-.1914	-.2034	-.4867	-.2306	.1549	.1371	
70.000		.7943	.5661	.3232	.1892	.1022	-.0319	.1993	-.2082	-.2060	-.7964	-.2399	.1371	.1066	
90.000			.5877	.3720	.2193	.1441	.1993	.3913	-.3913	-.7297	-.3178	-.2951	.1315	.3060	
120.000			.6423	.4117	.3499	.4449	.7042	.4618	-.6712	-.6244	-.4451	-.3443	.1222	.7028	
140.000			.6099	.4684	.4100	.4449	.0000	.0000	-.7903	-.6117	-.3940	-.3933	.1106	.0000	
150.000															
174.000															
180.000		1.2500	.6364	.9822	.4775	.6292	.4531	.0000							
188.000		.6880	.7900	.7610	.6230	.6620	.8230	1.0020	1.0210	1.0490					
PHI	.000	.0131	-.0220	-.2917	-.2401	-.4391	.0000	-.4405	-.3165	-.3263					
40.000			-.0276	-.0438	-.1797	-.0324	-.4790	-.4024	.0000	.0000					
70.000			.1190	.0448	.0832	.1637	.0375	-.0380							
90.000			.1370	.1106	.1460	.1431	-.0125	.0308	-.0646						
105.000				.2273	.0733	-.0434	-.0301	-.0864							
110.000									-.3610						
120.000		.1968	.2112	.3433	.0791	-.0460	-.0368	-.0946	-.2593						
135.000			.6000	.2728	.0051	.0026	-.1246								
150.000		.1688	.2676	.4060	.3641	.0566	.0305	-.2670							
166.000		.1632		.4270		.1346	.0343	-.3790							
180.000		.1923	.2493	.4168	.3900										

ALPHAO(1) = -7.860 BETA0 (3) = .030

SECTION (1) CRIBITER PURCHASE		DEPENDENT VARIABLE CP													
W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1790	.1870	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.2300	.9640	.1605	.0336	-.0074	-.1416	-.1467	-.2325	-.3222	-.4912	-.1903	.0238	.0460	
20.000			.1816	.0707	.0075	-.1365	-.1804	-.2164	-.2164	-.3774	-.4323	-.4102	-.2258	.0612	.1030
40.000			.2821	.0801	-.0046	-.1463	-.1096	-.2319	-.2970	-.4323	-.4102	-.2258	.0612	.1030	
56.000			.3451	.1470	.0261	-.0873	-.2319	-.2319	-.2455	-.7069	-.3067	-.1494	.1660	.1660	
70.000			.4228	.1995	.0542	-.0039	-.1544	-.1544	-.3604	-.6761	-.6476	-.1676	.1563	.1563	
90.000		.6150	.4477	.2534	.0788	.0274									

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 IAI4 OR-T12-S12B25 CRB. FUSELAGE (R81848)

ALPHAO (1) = -7.000 BETA0 (3) = .030

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PH1															
120.000		.3278	.3191	.2392	.2469		.0683			-.3668	-.6496	-.6780	-.3216	.1268	
140.000		.5392	.4656	.3621	.3922		.6062			-.4303					
150.000							.2749			-.6317	-.7482	-.4412	-.3965	.1350	
174.000															
180.000							.3775			-.6729	-.6467	-.3673	-.3969	.1403	
190.000															
196.000							.7437								
174.000															
180.000	1.2360	.6315	.5753	.4694	.4356	.4399	.6762			-.7864	-.7660	-.3326	-.3967	.1490	
190.000	.6330	.7500	.7610	.6620	.6620	.6230	.9630	1.0020	1.0210	1.0480					

ALPHAO (1) = -7.000 BETA0 (4) = 4.100

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PH1															
120.000		.0143	-.0912	-.1910	-.2762	-.4119	.0000	-.4236		-.3447	-.3334				
140.000		-.0311	-.0908	-.1480	-.2845	-.3775	-.3130	-.3682		.0000	.0000				
150.000		.1311	.0331	.0393	.1063	-.1492	-.0377	-.0335							
174.000		.1487	.1076	.1020	.0831	-.1463	-.0708	-.1377							
180.000															
110.000															
120.000		.1608	.1608	.1995	-.1141	-.2482	-.1961	-.2153		-.3445					
135.000															
150.000		.1775	.2864	.3335	.4105	-.1743	-.0463	-.3350							
166.000		.1775	.4540												
180.000		.1729	.2864	.4319	.6234										

ALPHAO (1) = -7.000 BETA0 (4) = 4.100

SECTION (1) ORBITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PH1															
120.000		.1200	.0674	.1260	.0609	-.0419	-.1277			-.2955	-.3692	-.4548	-.2292	-.0436	-.0233
140.000		.1346	.0499	-.0413	-.1678					-.3307					
150.000		.1632	.0346	-.0726	-.1723					-.3649	-.3445	-.4367	-.2320	-.0046	.0408
174.000		.2375	.0432	-.0897	-.1469					-.3684					
180.000		.2966	.0655	-.0400	-.0943					-.3945	-.6404	-.3929	-.1336	.1423	
190.000		.4146	.3131	.1002	-.0786	-.0791				-.4816	-.7703	-.7370	-.1670	.1310	
120.000		.4013	.1966	.1027	.1269					-.5434	-.7481	-.9354	-.2750	.0870	
140.000										-.7419					
150.000		.4638	.3933	.3108	.3146					-.7182	-.7603	-.4463	-.4941	.0965	
174.000															
180.000															
196.000															
187.000															



ALPHAOX 1) = -7.966 BETAO (2) = 0.190

SECTION (1) CRIBTER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0030	.7000	.7010	.0220	.0400	.0230	.0430	1.0000	1.0210	1.0400
PHI										
.000	-.1197	-.1910	-.2006	-.6423	-.4755	.0000	-.4665		-.3224	-.3224
40.000	-0.7061	-1.1372	-2.2390	-.4653	-.3947	-.4914	-.3661		.0000	.0000
70.000	.1074	.0134	-.0299	-.0014	-.2010	-.2399	-.2018			
90.000	.0727	.0349	-.0145	-.0317	-.3011	-.2710	-.2717			
105.000		.6432	-.1234	-.3441	-.3037	-.3141				
110.000										
120.000	.1119	.1348	-.1680	-.4880	-.2006	-.4102	-.3037			
130.000			.2006	-.0911	-.0953	-.7193	-.9696			
140.000	.0774	.1027	.2047	.3001	-.3490	-.4574	-.5900			
150.000	.0772		.4253		-.2132	-.4097	-.4075			
160.000	.0793	.1025	.3747	.5687						

ALPHAOX 2) = -3.980 BETAO (1) = -0.060

SECTION (1) CRIBTER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0410	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3750	.4490	.5760
PHI															
.000	1.8040	.5763	.1599	.0198	-.0354	-.1226		-.1980	-.2760	-.2302	-.2797	-.1694	-.0019	-.0340	
20.000			.2425	.0769	.0207	-.0627		-.2324	-.1525						
40.000			.4711	.1911	.0956	.0196		-.1675	-.0813	-.1636	-.2060	-.2355	-.0933	-.1023	
70.000			.6295	.3747	.2478	.1512		-.0902	-.0709	-.5422	-.2655	-.2306	-.1163		
90.000			.8032	.4424	.3040	.2154		-.0453	-.0462	-.4707	-.3073	-.2775	-.1143		
100.000			.9168	.4724	.4029	.3040	.2544	-.3078	-.0730	-.4321	-.7044	-.3237	-.0239		
120.000			.9614	.4324	.3810	.3026		-.0715							
140.000			.9324	.4158	.3484	.3946		-.1030	-.1030	-.6437	-.5977	-.3391	-.0308		
160.000								.4424							
170.000								.7460							
180.000								.7794							
190.000															
200.000	1.8040	.7208	.4147	.3363	.3107	.3459	.0324	.5912	-.0662	-.7016	-.5791	-.1792	.0159		

W/LB	.0000	.7000	.7010	.0230	.0400	.0230	.0430	1.0000	1.0210	1.0400
PHI										
.000	.0793	.0387	-.0387	-.2237	-.2183	.0000	-.4131		-.2977	-.3006
40.000	.0793	.1329	.0903	-.0229	-.2396	-.4700			.0000	.0000
70.000	-.0081	-.1108	.0741	.2126	.0983	-.1105	.0167			
90.000	.0247	-.0443	.1499	.2043	.0440	.0903	-.0237			
105.000		.2001	.1443	.0074	.0199	-.0451				
110.000										



ARC11-716 IALIA OL-TIB-SIDES 08010401

ALPHAO (3) = -3.000 BETAO (3) = .000

SECTION (1) IICRITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1100	.1300	.1670	.1700	.2000	.2000	.2010	.3700	.4000	.5700
PWT															
000	1.2500	.9042	.1411	.0005	-.0312	-.1307		-.1640	-.2506	-.3006	-.3031	-.1756	.0631	.0579	
50.000			.1700	.0001	-.0201	-.0268		-.1545	-.1502						
40.000			.2701	.0506	-.0405	-.1016		-.1180	-.2402	-.3235	-.3978	-.2752	.0538	.1102	
30.000			.3918	.1100	-.0100	-.1074		-.2330	-.2953						
20.000			.3999	.1401	.0042	-.0326		-.1164	-.2736	-.7955	-.4014	-.3177	.1479	.1479	
10.000		.3771	.4104	.1801	.0540	.0004		-.1347	-.2965	-.4004	-.5005	-.3005	.1479	.1479	
100.000		.4046	.2517	.1700	.2005		.0816		-.4799						
140.000									-.7133	-.6047	-.5425	-.4056	.1392	.1392	
150.000		.4002	.3606	.2013	.3045			.2378							
170.000								.9019							
190.000															
194.000															
182.000															
169.000		.7364	.4087	.3030	.3385	.3688	.8431	.7193	-.7837	-.7501	-.4722	-.4319	.1340	.1340	
160.000															
174.000															
190.000		.6880	.7000	.7010	.6000	.6000	.9400	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	

P-1

W/LB	.0000	.0410	.0700	.1100	.1300	.1670	.1700	.2000	.2000	.2010	.3700	.4000	.5700
PWT													
000	.0005	-.0410	-.1216	-.2007	-.4155	.0000	-.3047		-.3142	-.3143			
50.000		.0002	-.0047	-.2505	-.5715	.9237	.5087		.0000	.0000			
40.000		.0402	-.0271	.0016	-.0005	-.1995	-.1310						
30.000		.0704	.0000	.0005	.0540	-.2227	-.1847						
20.000			.1375	-.0105	-.2975	-.2725	-.2506						
10.000		.1104	.1401	.1999	-.0503	-.3135	-.2017	-.3106					
100.000			.6134	.2030	-.3300	-.1502	-.3040						
170.000		.1202	.0200	.4705	.3770	-.2530	-.1276	-.5037					
160.000		.1300	.4025		-.1270	-.1680	-.3065						
160.000		.1370	.0211	.3030	.3716								

ALPHAO (4) = -3.070 BETAO (4) = 4.100

SECTION (1) IICRITER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0230	.0470	.0700	.1100	.1300	.1670	.1700	.2000	.2000	.2010	.3700	.4000	.5700
PWT															
000	1.2500	.9002	.1109	.0029	-.0000	-.1303		-.2248	-.2801	-.3726	-.5042	-.2275	-.0391	.0011	
50.000			.1040	.0130	-.0000	-.1000		-.2091	-.3237						
40.000			.1740	.0200	-.1200	-.1905		-.1991	-.3004	-.3892	-.4545	-.2446	-.0063	.0031	
30.000			.2220	.0100	-.1192	-.1600		-.2021	-.3484						
20.000		.3747	.0300	-.1145	-.1100		-.1955	-.3419	-.4519	-.6242	-.5007	-.1675	.1105	.1105	
10.000		.3000	.3727	.0000	-.1000	-.0507	-.1041	-.4555	-.7035	-.7020	-.1955	-.1392	.1392	.1392	





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ARC11-716 1A14 ORBITER FUELSLAGE ORB. FUELSLAGE (R81848)

ALPHAO1 (2) = -3.970 BETA0 (4) = 4.100

SECTION (1) ORBITER FUELSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2050	.3010	.3790	.4990	.5760
PHI			.3915	.1396	.0501	.1035									
180.000															
140.000															
130.000			.4012	.3067	.2206	.2556									
151.000															
156.000															
162.000															
166.000															
169.000															
174.000															
160.000	1.2560	.7046	.4750	.3855	.3316	.3752	.7954	.6792							
X/LB	.6950	.7900	.7610	.6250	.6620	.9250	.9680	1.0020	1.0210	1.0480					

ALPHAO2 (2) = -3.980 BETA0 (5) = 6.180

SECTION (1) ORBITER FUELSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2050	.3010	.3790	.4990	.5760
PHI			.0727	.0126	-.0887	-.1488									
20.000															
40.000			.0515	-.0326	-.0994	-.2069									
55.000			.0550	-.0751	-.1543	-.2375									
70.000			.0695	-.0904	-.1768	-.1828									
90.000			.1315	-.0765	-.1900	-.1216									
120.000			.1532	-.0573	-.2223	-.1254									
140.000			.2199	-.0114	-.0809	-.0221									
150.000			.2775	.2516	.1402	.1950									
151.000															
156.000															
162.000															

ALPHAO3 (2) = -3.990 BETA0 (6) = 6.180

SECTION (1) ORBITER FUELSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2050	.3010	.3790	.4990	.5760
PHI			.0727	.0126	-.0887	-.1488									
20.000															
40.000			.0515	-.0326	-.0994	-.2069									
55.000			.0550	-.0751	-.1543	-.2375									
70.000			.0695	-.0904	-.1768	-.1828									
90.000			.1315	-.0765	-.1900	-.1216									
120.000			.1532	-.0573	-.2223	-.1254									
140.000			.2199	-.0114	-.0809	-.0221									
150.000			.2775	.2516	.1402	.1950									
151.000															
156.000															
162.000															

58

3360

.1463

ORIG. PUBLAGE (081848)

ALPHAX(2) = -3.000 BETA(5) = 8.100

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1900	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PHI															
100.000								.5680							
100.000															
174.000							.7012								
100.000	1.1000	.6000	.4300	.3300	.2600	.2000									
X/LB	.6000	.7000	.7010	.6200	.6020	.9200	.9000	1.0020	1.0210	1.0400					

PHI															
.000															
40.000															
70.000															
90.000															
100.000															
110.000															
120.000															
130.000															
150.000															
160.000															
100.000	.0000	.1400	.3300	.5130											

ALPHAX(3) = -3.000 BETA(1) = -8.100

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1900	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
50.000															
70.000															
90.000															
100.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
100.000	1.1000	.6000	.4300	.3300	.2600	.2000									

PHI															
.000															
20.000															
40.000															
50.000															
70.000															
90.000															
100.000															
120.000															
140.000															
150.000															
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
100.000	1.1000	.6000	.4300	.3300	.2600	.2000									



ALPHAX B = -.388 BETAO (B) = -4.030

SECTION (1) CRIBTER FUELAGE DEPENDANT VARIABLE CP

X/LB	.0030	.7000	.7010	.0030	.0020	.0030	.9430	1.0020	1.0210	1.0400
PWT										
120.000	-.0174	.0215	.0130	.0571	-.2776	-.1975	-.1057	-.2300		
130.000		.5417	.1536	-.2044	-.1126	-.1857				
150.000	.0342	.1371	.3391	.2132	-.1130	-.0854	-.3314			
160.000	.0473	.0166			-.0355	-.0894	-.3054			
180.000	.0376	.1913	.3175	.4402						

ALPHAX B = -.388 BETAO (B) = .040

SECTION (1) CRIBTER FUELAGE DEPENDANT VARIABLE CP

X/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1290	.1670	.1760	.2030	.2320	.3010	.3790	.4900	.5700
PWT															
20.000	1.2400	.6106	.1102	-.0421	-.0970	-.1069		-.1287		-.1611	-.2377	-.2356	-.1444	.0410	.0023
25.000		.1910	-.0147	-.0871	-.2406		-.1761		-.1244		-.2658	-.3647	-.1676	.0714	.1371
40.000		.2616	.0222	-.0667	-.2146		-.1606		-.2532		-.6793	-.4535	-.3221	.1084	
55.000		.3316	.0808	-.0576	-.1315		-.1372		-.2592		-.6927	-.5376	-.3132	.1196	
70.000		.3491	.1049	-.0342	-.0602		-.1045		-.2706		-.6369	-.4659	-.2667	.1192	
90.000		.6082	.3816	.1269	-.0236	-.0233	-.1119		-.3406		-.6369	-.4659	-.2667	.1192	
120.000		.2070	.1371	.1021	.1673		.0905		-.4769		-.6646	-.6363	-.3637	.1269	
140.000		.3724	.2612	.1640	.2682		.2291								
150.000							.5765								
154.000									.3243						
162.000										-.7664	-.7842	-.5419	-.4179	.1242	
169.000															
174.000															
180.000	1.0400	.6802	.3675	.2864	.2427	.3135	.6102	.6659		-.0617	-.9024	-.5116	-.4300	.1311	

X/LB	.0000	.7000	.7010	.0030	.0020	.0030	.9430	1.0020	1.0210	1.0400
PWT										
200.000	.0916	.0418	-.0008	-.3139	-.3627	.0000	-.3790		-.2865	-.2853
40.000	.0705	.0543	-.0221	-.2248	-.3012	-.3114	-.3749		.0000	.0000
70.000	-.0429	-.1498	-.0473	.0745	-.2246	-.2576	-.2597			
90.000	.0021	-.0086	.0146	.0382	-.2534	-.2921	-.3042			
105.000		.0998	-.0390	-.3037	-.3368	-.3316				
110.000							-.2430			
120.000	.0301	.0665	.1691	-.0376	-.3439	-.2923	-.3711	-.2768		
130.000		.4955	.1986	-.3988	-.2454	-.3322				
150.000	.0831	.1709	.3905	.2937	-.2921	-.2540	-.3088			
165.000	.0035	.3430		-.1682	-.2771	-.3612				
169.000	.0095	.1702	.3270	.3057						

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ARC11-716 1A14 04+T12+SI2MCS CRG. PUSBLAGE (RB1846)

ALPHAO1 3) = -.300 BETAO (4) = 4.000

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0040	.0080	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2920	.3010	.3790	.4990	.3700
PWT															
80.000	1.2280	.9838	.1089	-.0169	-.1202	-.1996		-.1931		-.2964	-.3201	-.1934	-.1737	-.0085	.0307
85.000			.1056	-.0258	-.1301	-.2130		-.1910		-.1662					
90.000			.1228	-.0442	-.1575	-.2210		-.1635		-.1917	-.3029	-.4177	-.1677	.0136	.0622
95.000			.1634	-.0312	-.1718	-.1716		-.1946		-.3179					
100.000			.2281	-.0130	-.1658	-.1176		-.1910		-.3342	-.7904	-.5453	-.1399	.0699	
105.000		.3804	.2122	.0191	-.1493	-.0985		-.1999		-.3697	-.7846	-.6359	-.1978	.1161	
110.000			.2863	.0762	-.0155	.0634		-.0413		-.5319	-.7632	-.9733	-.2058	.1176	
115.000			.3123	.2119	.1296	.1936				-.7636					
120.000									.1096	-.8452	-.6832	-.9831	-.3112	.1079	
125.000															
130.000									.4486						
135.000															
140.000															
145.000															
150.000	1.2200	.6042	.3791	.2853	.2326	.3007	.7319	.6420		-.7770	-.9029	-.5491	-.4369	.1033	
155.000															
160.000															
165.000															
170.000															
175.000															
180.000	.6880	.7800	.7610	.6230	.6620	.9230	.9650	1.0020	1.0210	1.0490					
PWT															
80.000	.0920	-.0055	-.1502	-.4829	-.6128	.0000	-.4047			-.2968	-.2875				
85.000															
90.000	.0343	-.0146	-.1156	-.3617	-.3965	-.4396	-.3446								
95.000															
100.000	-.0010	-.1124	-.0777	.0162	-.2715	-.3142	-.3423								
105.000															
110.000	.0119	-.0373	-.0287	-.0302	-.3020	-.3365	-.3686								
115.000															
120.000			.0430	-.1037	-.3486	-.3684	-.3948								
125.000															
130.000	.0980	.0822	.0862	-.2166	-.4342	-.3684	-.4545	-.3643							
135.000															
140.000	.0804	.1806	.4046	.3264	-.3726	-.4359	-.4549								
145.000															
150.000	.0884	.3441			-.2463	-.4342	-.3216								
155.000															
160.000	.0822	.1542	.3193	.4636											

ALPHAO1 3) = -.300 BETAO (5) = 6.160

SECTION (1) CRIBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2920	.3010	.3790	.4990	.3700
PWT															
80.000	1.1288	.9913	.0535	-.0253	-.1047	-.1751		-.1274		-.2037	-.3245	-.2425	-.2343	-.0865	-.0481
85.000								-.2649		-.3757					
90.000			.0201	-.0790	-.1411	-.2354		-.1970		-.2347	-.3519	-.4052	-.2407	-.0469	.0310
95.000			.0219	-.1174	-.1670	-.2930		-.2617		-.3592					
100.000			.0326	-.1302	-.2228	-.2704		-.2701		-.3899	-.7939	-.4872	-.2464	.0686	
105.000			.0916	-.1270	-.2407	-.1866		-.2701		-.4775	-.6041	-.5659	-.2634	.0921	
110.000			.0875	.1074	-.1029	-.2427		-.3331							

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(M10146)

CRG. FUELSLAGE

ARC11-716 1A14 OL-T12-S12MS

ALPHAOX 3) z -0.350 BETA0 (3) z 0.100

SECTION (1) CRIBITER FUELSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5700
PWT															
120.000			.1021	-.0576	-.1370	-.0744									
140.000															
150.000			.2196	.1915	.0227	.0949									
151.000															
154.000															
162.000															
165.007															
169.000															
174.000															
180.000	1.1500	.5845	.3045	.2387	.1942	.2353	.0001								

W/LB	.0000	.7500	.7810	.8250	.8620	.9250	.9680	1.0020	1.0210	1.0490
PWT										
110.000										
120.000										
135.000										
150.000										
165.000										
180.000										

SECTION (1) CRIBITER FUELSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5700
PWT															
40.000			.0092	-.0444	-.1995	-.0059	-.4311	.0000							
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHAOX 4) z 4.100 BETA0 (1) z -0.100

SECTION (1) CRIBITER FUELSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5700
PWT															
20.000			.1405	-.0577	-.1212	-.1931									
40.000															
50.000															
70.000															
90.000															
120.000															
140.000															
150.000															
151.000															
154.000															
162.000															



ARC11-T16 IAI4 OVERTURSES CR8. FUELRAGE (091846)

ALPHAO1 4) = 4.000 BETAO (2) = -4.040

SECTION (1) OVERTUR FUELRAGE DEPENDENT VARIABLE CP

X/LB	0.000	0.700	7.010	0.000	0.000	0.000	0.900	1.000	1.0210	1.0400
PVI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.000	0.194	0.0731	-0.0822	-0.2040	-0.4166	0.0000	-0.3870	-0.8410	-0.2200	-0.0000
60.000	0.1604	0.1616	0.0000	-0.0877	-0.3253	-0.4082	-0.4115	0.0000	0.0000	0.0000
70.000	-0.1820	-0.3087	-0.3270	0.0700	-0.2175	-0.2054	-0.0920	0.0000	0.0000	0.0000
80.000	-0.0877	-0.3030	-0.1204	0.0501	-0.2646	-0.3241	-0.0734	0.0000	0.0000	0.0000
90.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
100.000	-0.1204	-0.1600	0.0571	-0.3676	-0.2060	-0.1601	-0.2309	0.0000	0.0000	0.0000
120.000	0.1390	0.0379	0.0606	-0.3526	-0.1032	-0.3006	0.0000	0.0000	0.0000	0.0000
130.000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
140.000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
160.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
180.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

ALPHAO1 4) = 4.000 BETAO (3) = 0.000

SECTION (1) OVERTUR FUELRAGE DEPENDENT VARIABLE CP

X/LB	0.000	0.000	0.000	0.000	0.0470	0.0700	0.1120	0.1390	0.1670	0.1700	0.2000	0.3010	0.3790	0.4990	0.7900
PVI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.000	1.0000	0.0025	0.1444	-0.0002	-0.0993	-0.1609	-0.1000	-0.1000	-0.1000	-0.1000	-0.1000	-0.1000	-0.1000	-0.1000	-0.1000
40.000	0.1630	0.0111	-0.0713	-0.2304	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384
60.000	0.0000	0.0447	-0.0599	-0.2304	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384	-0.1384
80.000	0.3946	0.0040	-0.0200	-0.1740	-0.1259	-0.1259	-0.1259	-0.1259	-0.1259	-0.1259	-0.1259	-0.1259	-0.1259	-0.1259	-0.1259
90.000	0.5504	0.0000	-0.0496	-0.1015	-0.0912	-0.0912	-0.0912	-0.0912	-0.0912	-0.0912	-0.0912	-0.0912	-0.0912	-0.0912	-0.0912
100.000	0.4007	0.1000	0.0000	-0.0020	-0.0477	-0.0910	-0.0910	-0.0910	-0.0910	-0.0910	-0.0910	-0.0910	-0.0910	-0.0910	-0.0910
120.000	0.3025	0.0001	0.0007	-0.1199	-0.0974	-0.0974	-0.0974	-0.0974	-0.0974	-0.0974	-0.0974	-0.0974	-0.0974	-0.0974	-0.0974
140.000	0.2004	0.1944	0.0701	0.1949	0.2196	0.2196	0.2196	0.2196	0.2196	0.2196	0.2196	0.2196	0.2196	0.2196	0.2196
160.000	0.1400	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
170.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
180.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
190.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
200.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
210.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SECTION (1) OVERTUR FUELRAGE DEPENDENT VARIABLE CP

X/LB	0.000	0.700	7.010	0.000	0.000	0.000	0.900	1.000	1.0210	1.0400
PVI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.000	0.1304	0.0707	-0.0200	-0.2001	-0.4122	0.0000	-0.3741	-0.2001	-0.2709	-0.0000
60.000	0.1277	0.0200	0.0100	-0.2105	-0.3337	-0.4647	-0.3000	0.0000	0.0000	0.0000
70.000	-0.1194	-0.3100	-0.2079	0.0300	-0.2444	-0.2005	-0.3445	0.0000	0.0000	0.0000
80.000	-0.0100	-0.2300	-0.1004	-0.0000	-0.3022	-0.3502	-0.3000	0.0000	0.0000	0.0000
90.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
100.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
110.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



MRC11-716 IA1A 01-713-012MCS (R01046)

CRG. PURCHASE

ALPHACO 4) = 4.000 BETA0 (9) = 0.300

SECTION (1) CRITTER PURCHASE DEFECTOR VARIABLE CP

K/L/S	0000	0000	0020	0470	0700	1120	1190	1670	1700	2070	2300	3010	3700	4000	5700
PWT	0.000	1.1180	0.0025	0.0171	-0.0765	-1.1769	-2.2502	-1.2606	-1.987	-0.0000	-2.443	-2.074	-0.1770	-0.0290	
20.000				-0.0004	-1.1167	-1.0003	-2.705	-2.499	-2.660						
40.000				-0.0002	-1.0610	-2.237	-3.306	-1.604	-1.701	-3.257	-3.497	-2.540	-0.0804	0.0330	
60.000				-0.0006	-1.176	-2.502	-3.326	-1.546	-2.591						
70.000				-0.0004	-1.1737	-2.615	-3.034	-1.236	-3.306	-7.742	-7.911	-1.681	0.0555		
90.000				-0.0006	-1.000	-2.750	-2.901	-2.116	-4.040	-8.079	-9.162	-1.900	0.0000		
120.000				-0.0025	-0.000	-1.900	-1.179	-2.033	-0.619	-0.501	-5.551	-2.206	1.021		
140.000									-0.537						
160.000				-1.265	0.017	-0.091	0.196	-0.0007	-0.9375	-9.907	-6.565	-1.750	0.716		
170.000								0.000							
175.000								0.000							
180.000								0.000							
185.000								0.000							
190.000								0.000							
195.000								0.000							
200.000								0.000							

ALPHACO 5) = 0.000 BETA0 (1) = -0.000

SECTION (1) CRITTER PURCHASE DEFECTOR VARIABLE CP

K/L/S	0000	0000	0020	0470	0700	1120	1190	1670	1700	2070	2300	3010	3700	4000	5700
PWT	0.000	1.1070	0.0014	1.104	-0.0025	-1.406	-1.000	-1.441	-0.003	-0.002	-0.102	-0.451	0.004	1.197	
20.000				0.0025	0.007	-0.007	-1.194	-1.050	-0.403						
40.000				0.0075	0.000	0.004	-0.006	-1.042	-0.004	-0.003	-0.007	-0.004	1.400	2.400	
60.000				0.006	0.000	0.000	1.033	0.007	0.006						
70.000				0.000	0.000	0.000	1.007	0.002	0.001						
90.000				0.000	0.002	0.000	1.000	1.043	0.001	-0.417	-1.647	-2.455	0.070		



ALPHA01 00 = 7.000 BETAO (2) = -4.000

SECTION (110) AFTER PURCHASE DEPENDOR VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1100	.1500	.1670	.1700	.2000	.2300	.3010	.3700	.4000	.3700
PW1															
100.000															
100.000															
174.000						.7432		.0034							
100.000	1.2070	.4437	.1300	.0700	.0362	.0100		.5301							
W/LB	.0000	.7000	.7010	.0200	.0000	.0200	.0400	1.0000	1.0210	1.0400					

PW1

.000	.1400	.0000	-.0000	-.3004	-.0120	.0000	-.3400		-.2175	-2.400					
40.000	.1774	.1043	.0721	-.1254	-.0200	-.4003	-.4142		.0000	.0000					
70.000	-.1023	-.4404	-.3014	.0000	-.3011	-.1003	-.0003								
90.000	-.1300	-.3742	-.2403	.0700	-.2307	-.2305	-.1210								
100.000															
110.000															
120.000	-.2041	-.5401	.0275	-.0034	-.4007	-2.740	-.1300								
130.000															
150.000	-.0004	-.0103	.0027	.0074	-.3277	-.2300	-.2047								
100.000	-.0040		.1970												
100.000	-.0000	.0000	.1700	.4104											

ALPHA01 00 = 7.000 BETAO (2) = .000

SECTION (110) AFTER PURCHASE DEPENDOR VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1100	.1500	.1670	.1700	.2000	.2300	.3010	.3700	.4000	.3700
PW1															
20.000	1.2040	.0401	.0744	-.0303	-.0070	-.1004		-.1003							
40.000															
40.000															
50.000															
70.000															
90.000															
100.000															
100.000															
120.000															
130.000															
150.000															
174.000															
100.000	1.2040	.4004	.1012	.0030	.0402	.1004		.7013							
W/LB	.0000	.7000	.7010	.0200	.0000	.0200	.0400	1.0000	1.0210	1.0400					



(881846)

ORB. FUSELAGE

ARC11-716 1A14 OR-712-512823

ALPHAX (5) = 0.040 BETA (4) = 4.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7810	.8230	.8680	.9230	.9630	1.0020	1.0210	1.0460
PHI										
120.000	-.0013	-.0074	.0034	-.2232	-.4741	-.4761	-.5423	-.3161		
135.000	.4696	.0428	-.5130	-.4610	-.5416					
150.000	.0021	.0379	.3125	.2116	-.4329	-.5195	-.4514			
165.000	.0016	.2260		-.3165	-.5332	-.2629				
180.000	-.0237	.0143	.1736	.3923						

ALPHAX (5) = 0.030 BETA (5) = 6.220

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.008	1.0740	.9866	.0317	-.0891	-.1917	-.2546		-.1636		-.1334	-.1611	-.1792	-.1308	-.0323	-.0026
20.000		-.0410	-.1399	-.1963	-.3026		-.2522		-.1741						
40.000		-.0751	-.1630	-.2127	-.3765		-.1962		-.1979	-.2696	-.2496	-.1557	-.1124	.0124	.0821
55.000		-.0465	-.2030	-.2640	-.4026		-.1862		-.2060						
70.000		-.0034	-.2068	-.2767	-.3504		-.1623		-.2604	-.7016	-.5075	-.1613	-.1613	.0274	
90.000		-.0905	-.0656	-.2072	-.3301	-.2941	-.1743		-.3619	-.7962	-.5100	-.1232	-.1232	.0463	
120.000		.0265	-.1672	-.2469	-.1145		-.1165		-.9991	-.8497	-.5011	-.1509	-.1509	.1007	
140.000									-.9132						
150.000		.0326	-.0419	-.1557	-.0205		-.0903		-.9596	-.10030	-.6443	-.1420	-.1420	.1080	
171.000							.2690								
156.000								.0423							
162.000									-.9188	-.9542	-.6718	-.2124	-.2124	.0663	
165.000															
169.000							.4639								
174.000															
180.000	1.0740	.2463	.0894	.0127	-.0349	.0822	.9505	.4217	-1.0180	-.9112	-.7849	-.2660	-.2660	.0323	

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7810	.8230	.8680	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.008	.0506	-.0216	-.1773	-.5680	-.4270	.0000	-.3679		-.2540	-.2596
40.000	.0747	.0211	-.0868	-.3462	-.3671	-.4196	-.3114		.0000	.0000
70.000	-.1761	-.2252	-.1914	-.0927	-.4076	-.4301	-.3267			
90.000	-.1236	-.1710	-.1294	-.1374	-.4410	-.4703	-.4684			
105.000			-.0479	-.2115	-.4904	-.5330	-.3063			
110.000								-.2907		
120.000	-.0632	-.0493	.0810	-.2711	-.5462	-.5375	-.5929	-.2990		
135.000		.5032	.0510	-.6293	-.5729	-.6214				
150.000	-.0691	-.0073	.2514	.1332	-.4692	-.6220	-.4439			
165.000	-.0944	.1449		-.3696	-.6142	-.2865				
180.000	-.1233	-.0760	.1061	.2929						

ORIGINAL PAGE IS OF POOR QUALITY



REFERENCE DATA
 WOP = 2.4210 94.FT. WOP = 29.9000 INCHES MACH = 1.050 ELEVON = .000
 LWP = 26.7000 INCHES YWP = .0000 INCHES RUDDER = .000 SPOBRK = .000
 SWP = 28.7000 INCHES ZWP = .0000 INCHES
 SCALE = .0008 SCALE

ALPHAO (1) = -7.940 BETA0 (1) = -0.070

SECTION 1 (10BITTER PURCHASE) DEPENDOR VARIABLE CP

X/L5	.0000	.0000	.0020	.0470	.0700	.1120	.1560	.1670	.1760	.2050	.2920	.3010	.3790	.4090	.5760
PW1	.000	1.2280	.5977	.2302	.1219	.0611	.0164	-.0023	-.0023	-.0396	-.1706	-.2100	-.2362	-.1236	-.0090
20.000				.2302	.1637	.1206	.0462	-.1247	-.0396						
40.000				.5225	.2574	.1606	.1056	-.0592	-.0219						
55.000				.6073	.4499	.3300	.2189	.0795	-.0245						
70.000				.7740	.5372	.3972	.3066	.1670	.0068						
90.000		1.0000		.7804	.3950	.4356	.3644	.1870	.0362						
120.000				.7979	.6012	.5266	.5117	.4063	.0319						
140.000				.6946	.5614	.5245	.5362	.5226	.0701						
150.000								.6337	.5226						
165.000									.5962						
180.000															
174.000															
190.000		1.2280	.6672	.5796	.4669	.4696	.4696	.6546							
X/L5	.0000	.7500	.7610	.6230	.6620	.6230	.9430	1.0020	1.0210	1.0400					

PARAMETRIC DATA

PW1	.000	.0004	.0050	-.0332	-.1035	-.4645	.0000	-.4049	-.2696	-.3035
40.000				.0606	.0050	-.6150	-.6262	-.4964	.0000	.0000
70.000		.0263	.0268	.1943	.2662	.1334	.1855	.1033		
90.000		.0749	.1075	.2533	.2963	.1250	.1997	.0757		
105.000				.3469	.2316	.0913	.1056	.0532		
110.000								-.2304		
120.000		.0541	.2055	.2699	.2500	.0894	.1276	.0689		
135.000				.6423	.3249	.1758	.1861	.0586		
150.000		.6748	.2006	.4462	.3530	.2726	.2248	-.0904		
165.000		.0796		.4182		.3966	.2248	-.2272		
180.000		.0825	.2411	.4279	.5769					

ARC11-716 1A14 ORBITER FUELAGE

ORB. FUELAGE

(R01047)

ALPHAOX (1) = -7.960 BETA0 (2) = -4.010

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

PHI	0.000	1.2630	.0356	.2995	.1447	.1114	.0131	.0599	-.1054	-.0882	-.2285	-.2923	-.0923	-.0174
20.000	.0000	.0000	.0230	.0470	.0757	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990
40.000	.0000	.0000	.0230	.0470	.0757	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990
60.000	.0000	.0000	.0230	.0470	.0757	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990
80.000	.0000	.0000	.0230	.0470	.0757	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990
100.000	.0000	.0000	.0230	.0470	.0757	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990
120.000	.0000	.0000	.0230	.0470	.0757	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990
140.000	.0000	.0000	.0230	.0470	.0757	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990
160.000	.0000	.0000	.0230	.0470	.0757	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990
180.000	.0000	.0000	.0230	.0470	.0757	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990
PHI	.000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
20.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
40.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
60.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
80.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
100.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
120.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
140.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
160.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
180.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

PHI	.000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
20.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
40.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
60.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
80.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
100.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
120.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
140.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
160.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
180.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				

ALPHAOX (1) = -7.960 BETA0 (3) = .030

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

PHI	.000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
20.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
40.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
60.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
80.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
100.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
120.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
140.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
160.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				
180.000	.0000	.0054	-.0420	-.1124	-.1539	-.4499	.0000	-.3649	-.2794	-.2964				



ARC11-716 1A14 OVERTENSILES CRB. FUSBLAGE (R81847)

ALPHAO (1) = -7.988 BETA0 (4) = 4.128

SECTION (1) CRIBBITER FUSBLAGE DEPENDENT VARIABLE CP

W/LB .0000 .0000 .0250 .0470 .0700 .1120 .1900 .1670 .1760 .2050 .2520 .3010 .3790 .4990 .5760

PHI 189.0000 .7605
188.0000
174.0000 .6932
180.0000 1.2770 .8605 .6454 .5904 .5034 .3217 .7664

W/LB .6830 .7500 .7810 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0483

PHI 105.0000
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136.0000
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ALPHAO (1) = -7.988 BETA0 (5) = 6.210

SECTION (1) CRIBBITER FUSBLAGE DEPENDENT VARIABLE CP

W/LB .0000 .0000 .0250 .0470 .0700 .1120 .1900 .1670 .1760 .2050 .2520 .3010 .3790 .4990 .5760

PHI 189.0000
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DATE 09 DEC 74 TABULATED RESOURCE DATA - 1A14A - VOL. 3

081847

ORB. FUELAZE

ARC11-716 1A14 01+T12+812MS

ALPHA0 (2) = -3.020 BETA0 (1) = -6.120

SECTION (1) ORBITER FUELAZE DEPENDENT VARIABLE CP

X/LS	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0961	-.0089	.4184	.2459	.0276	.1232	.0673	-.1259		
135.000			.9574	.2513	.1170	.1963	.0405			
150.000	-.0096	.1753	.3621	.2712	.2039	.1801	-.1193			
165.000	-.0034		.3623		.2956	.1764	-.2508			
180.000	.0011	.1828	.3600	.3040						

ALPHA0 (2) = -3.030 BETA0 (2) = -4.020

SECTION (1) ORBITER FUELAZE DEPENDENT VARIABLE CP

X/LS	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2820	.3010	.3790	.4990	.5780
PHI															
1.2720	.6991		.2325	.1086	.0774	-.0792		.0218		-.0435	-.0772	-.2213	-.2111	-.0959	.0074
20.000		.3002	.1334	.1045	-.0690			-.1162		-.1208	-.1354	-.2066	-.2303	-.0948	.0987
40.000		.4325	.2074	.1291	-.0032			-.0633		-.0992					
55.000		.5387	.3200	.2000	.1037			.0211		-.0761	-.5376	-.2622	-.2581	-.1290	
70.000		.6152	.3726	.2375	.1748			.0758		-.0650	-.4571	-.3551	-.2577	-.1353	
90.000		.6183	.3956	.4076	.2594	.2146		.0846		-.1066	-.3917	-.6679	-.2484	-.1831	
120.000		.6342	.4072	.3613	.3839			.2945		-.1337					
140.000		.5759	.4733	.4085	.4451			.4475		-.4062	-.6902	-.4766	-.2695	-.1934	
150.000								.7316							
151.000									.9125	-.3650	-.5441	-.4544	-.3113	-.1941	
156.000															
165.000								.6135							
168.000															
174.000	1.2720	.7964	.2801	.4472	.4056	.4471	.9168	.7147		-.7054	-.5741	-.3796	-.3328	-.1757	
180.000	.6830	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.000	.0475	.0824	-.0380	-.1791	-.4826	.0000	-.3635
40.000	.0517	.0754	.0709	-.0433	-.0854	-.4877	-.4337	
70.000	.0147	-.0976	.1056	.2096	-.0483	.0243	.0332	
90.000	.0475	-.0119	.1644	.1946	-.0720	-.0253	.0129	
105.000		.2322	.1336	-.1185	-.0970	-.0119		
116.000							-.2646	
120.000	.0482	.1456	.3768	.1953	-.1341	-.0959	-.0341	-.1477
135.000		.6203	.2915	-.0322	.0242	-.1069		
150.000	.0803	.2411	.4581	.3537	.0367	.0330	-.2231	
165.000	.0864	.4218	.4218	.1206	.0291	-.3156		
198.000	.1817	.2460	.4232	.5150				

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 1A14 OAT1E+SIEMES CRG. FUELRAGE (R01047)

ALPHAO 2) = -3.910 BETA0 (3) = .000

SECTION (1) CRITTER FUELRAGE DEPENDENT VARIABLE CP

Z/LB	.0200	.0000	.0200	.0470	.0700	.1120	.1590	.1070	.1700	.2030	.2300	.3010	.3790	.4990	.0700
PWT															
.000	1.2040	.0000	.2297	.1041	.0433	-.0207		-.0293		-.1245	-.1751	-.2942	-.2952	-.0091	.0001
20.000		.2004		.1230	.0596	-.0702		-.0004		-.1549					
40.000			.3096	.1469	.0515	-.0444		-.2404		-.2473	-.2428	-.2794	-.2660	-.0796	.0676
60.000				.4293	.2041	-.0017		-.1291		-.1623					
80.000					.4768	.2402	.0446	-.0371		-.1539	-.0103	-.3790	-.3037	-.1223	
100.000		.0430		.4878	.2773	.1020		-.0244		-.2234	-.5461	-.4871	-.2835	-.1307	
120.000			.3361	.3364	.2633	.2336		.1814		-.2729	-.3242	-.7343	-.2692	-.1952	
140.000				.3424	.4443	.3640	.4030			-.3221					
160.000								.3503		-.5713	-.0543	-.4637	-.3232	-.1523	
180.000								.0647							
200.000									.4390						
220.000										-.5703	-.3960	-.3046	-.3433	-.1921	
240.000		.7973	.5406	.4990	.4160	.4393	.0993	.7036							
260.000									.7057						
280.000										-.3087	-.0904	-.3326	-.3493	-.1422	
300.000	1.2040														
320.000		.0680	.7010	.0230	.0420	.0230	.0430	1.0000	1.0210	1.0490					
PWT															
.000	.0430	.0133	-.0010	-.2106	-.3396	.0000	-.3673		-.2928	-.2938					
20.000		.0116	-.0204	-.1606	-.0710	-.4723	-.3490		.0000	.0000					
40.000		.0448	.0103	.0703	.1366	-.1022	-.1233								
60.000		.0702	.1296	.1267	-.1214	-.1412	-.1637								
80.000			.2002	.0551	-.1647	-.1836	-.1832								
100.000		.1116	.1944	.2127	.0546	-.2227	-.1901	-.2515	-.3263						
120.000				.2048	.2333	-.2463	-.1151	-.2019	-.2761						
140.000		.1357	.2006	.3063	.4362	-.1366	-.1822	-.2833							
160.000		.1353		.4572		-.0132	-.1302	-.3267							
180.000	.1364	.2721	.4440	.5713											

ALPHAO 2) = -3.910 BETA0 (4) = 4.100

SECTION (1) CRITTER FUELRAGE DEPENDENT VARIABLE CP

Z/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1590	.1070	.1700	.2030	.2300	.3010	.3790	.4990	.0700
PWT															
.000	1.2040	.0222	.1927	.1089	.0180	-.0232		-.0973		-.1915	-.2534	-.3364	-.3333	-.1421	-.0943
20.000			.1993	.1030	.0177	-.0446		-.1602		-.1936					
40.000				.2406	.0903	-.0131	-.0772	-.1094		-.1890	-.2115	-.3120	-.3298	-.0941	-.0033
60.000					.2943	.1017	-.0574	-.1706		-.2307					
80.000				.3361	.1170	-.0133	-.0021	-.0836		-.2479	-.0773	-.4659	-.3130	-.0689	
100.000		.4423	.3571	.1473	-.0121	.0137		-.1044		-.3266	-.0434	-.3933	-.2896	-.0743	

ARC11-716 IA14 CHATTERS/SHINES CRG. PUBLISHER 08010477

ALPHAO E) = -3.918 BETAO (4) = 4.100

W/LB	0.0000	.0000	.0250	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2380	.3010	.3790	.4090	.5190
PWT															
120.000			.4038	.2203	.1339	.1054		.0455		-.0093	-.0150	-.0355	-.3001	-.1337	
140.000										-.0236					
120.000			.4720	.3706	.2736	.3333		.2237		-.0339	-.0046	-.0216	-.0236	-.1721	
124.000								.5401							
102.000								.7275		-.3710	-.0964	-.3016	-.3633	-.1813	
105.000															
109.000															
174.000			.7300	.5419	.4038	.4441	.0302	.7434		-.7276	-.5646	-.3793	-.3364	-.1793	
100.000			.6000	.7010	.8230	.8620	.9400	1.0000	1.0210	1.0490					

ALPHAO E) = -3.920 BETAO (5) = 0.100

W/LB	0.0000	.0000	.0250	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2380	.3010	.3790	.4090	.5190
PWT															
40.000			-.0142	-.0413	-.1427	-.4407	-.4006	.0000	-.3799	-.2742	-.2003				
40.000			-.0349	-.0829	-.1296	-.3333	-.3391	-.4267	-.3390	.0000	.0000				
70.000			.0004	.0223	.0447	.1256	.1302	-.1657	-.1871						
90.000			.0832	.0822	.0863	.0786	-.1704	-.1003	-.2194						
105.000			.1914	-.0072	-.2215	-.2442	-.2444								
110.000			.3093	.1705	-.0673	-.1407	-.3342	-.2297	-.3101	-.3701					
136.000			.5402	.2161	-.4032	-.3119	-.3213								
100.000			.1130	.2396	.5021	.4792	-.2153	-.2794	-.4117						
100.000			.1130	.4406		-.0036	-.2007	-.3077							
100.000			.1305	.2323	.4246	.5400									

ALPHAO E) = -3.920 BETAO (5) = 0.100

W/LB	0.0000	.0000	.0250	.0470	.0700	.1120	.1390	.1670	.1700	.2050	.2380	.3010	.3790	.4090	.5190
PWT															
20.000			.1212	.0015	.0227	-.0346		-.0132		-.2007	-.3027	-.3000	-.3051	-.2676	-.1457
20.000			.0907	.0415	-.0019	-.0942		-.2237		-.2010					
40.000			.1114	.0130	-.0431	-.1140		-.1347		-.3396	-.2406	-.4012	-.3019	-.1839	-.0500
50.000			.1206	.0073	-.0026	-.0432		-.2100		-.2073					
70.000			.1994	.0075	-.0709	-.0070		-.1457		-.2049	-.7297	-.5451	-.3065	-.0779	
90.000			.2203	.0246	-.1137	-.0132		-.2244		-.3900	-.7209	-.6721	-.3279	-.0700	
100.000			.2025	.0000	-.0076	.0047		-.0914		-.5430	-.7019	-.0642	-.9177	-.1375	
100.000								-.7449		-.6710	-.7451	-.4503	-.4005	-.2773	
130.000			.3364	.3002	.2163	.2307		.0615							
131.000								.4273							
134.000								.2490							



08010477

CRB. PUBLCLAGE

ARC11-716 1A14 CR1718-918IES

ALPHAO (1) = .000 BETAO (1) = -0.130

SECTION (1) CRIBITER PUBLCLAGE DEPENDENT VARIABLE CP

Z/LB	.0000	.7500	.7510	.0230	.0230	.0620	.0620	.9430	1.0020	1.0210	1.0490
PW1											
.000	.1349	.1203	.0339	-.1000	-.4037	.0000	-.3403			-.2301	-.2482
40.000	.1042	.2336	.1902	.0395	-.0575	-.9927	.4475			.0000	.0000
70.000	-.0449	-.2041	-.3015	.1071	-.0479	.1275	.0620				
90.000	-.0164	-.2025	-.0175	.1949	-.0332	.1013	.0636				
105.000			.1042	.1008	-.1359	.0364	.0363				
110.000											-.2014
120.000	-.1394	-.2164	.2646	.2408	-.1408	.0405	.0476				-.1329
135.000			.4099	.1331	.0121	.0737	.0007				
150.000	-.0345	.0295	.2301	.1706	.1274	.1127	-.1375				
165.000	-.0874	.2900	.2900	.2153	.1098	-.2059					
180.000	-.0197	.1391	.3104	.4002							

ALPHAO (2) = .000 BETAO (2) = -4.000

SECTION (1) CRIBITER PUBLCLAGE DEPENDENT VARIABLE CP

Z/LB	.0000	.0000	.0230	.0470	.0470	.0700	.1120	.1120	.1390	.1670	.1790	.2050	.2320	.3010	.3790	.4990	.5790
PW1																	
.000	1.2570	.0775	.2175	.0406	.0246	-.1401			-.0206	-.0036	-.1423	-.2101	-.0619	-.0612			
20.000		.2018	.1005	.0283	-.1238				-.1109	-.0116							
40.000		.4303	.1707	.0794					-.0411	.0167	-.1021	-.2003	-.1903	-.0603	-.1434		
70.000		.2919	.2948	.1670	.0600				.0167	-.0790							
90.000		.2079	.3301	.1639	.1209				.0915	-.0378	-.4378	-.2482	-.2405	-.1450			
100.000		.2001	.3408	.1602	.1744				.0912	-.0431	-.4978	-.2923	-.2997	-.1409			
120.000		.2071	.3406	.2002	.3267				.2939	-.1090	-.4017	-.6477	-.3172	-.2100			
140.000										-.1712							
150.000		.4075	.3015	.2993	.3403					-.3944	-.7306	-.5474	-.2933	-.1729			
170.000									.7822		.4272						
190.000											.4924						
195.000																	
198.000																	
199.000																	
174.000																	
180.000	1.2570	.0040	.0000	.3343	.2971	.3400			.6775								

Z/LB	.0000	.7500	.7510	.0230	.0620	.0620	.9430	1.0020	1.0210	1.0490
PW1										
.000	.1113	.0007	-.0000	-.1004	-.4006	.0000	.0000	-.3296		
40.000	.1130	.1005	.1354	.0036	-.0918	-.4922	-.0341			-.2409
70.000	-.0027	-.2232	-.0472	.1709	-.0708	-.0094	.0130			.0000
90.000	.0002	-.1000	.0430	.1049	-.1157	-.1442	-.1021			
100.000		.1705	.0308	-.1000	-.1979	-.0419				-.2000
110.000										

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ALPHACI 20 * .000 BETAO (4) * 4.100

0K11-716 1A14 C1+11B-810MS

28181471

CND. PURCHASE

SECTION (1) INCREMENT PURCHASE DEPENDENT VARIABLE CP

P/LS	C200	.0200	.0419	.0700	.1100	.1500	.1670	.1760	.2030	.2300	.3010	.3700	.4000	.5100
P/LS	1.2000	.6000	1.0000	.6404	-.0023	-.0306	-.0101	-.1277	-.2214	-.3207	-.1910	-.1000	-.0007	
	.0000	.0012	.0216	-.0094	-.0555									
	.0200	.0400	.0455	.1196	-.0410									
	.2170	.0807	-.0006	-.0040	-.1001									
	.2947	.0704	-.0036	-.0105	-.0097									
	.2729	.1044	-.0478	-.0147	-.1114									
	.3519	.1922	.0084	.1305	.0433									
	.3743	.2737	.1935	.2393										
	.3071				.1991									
	.0020				.0020									
	.4000	-.0000	-.0002	-.0002	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000
	.7010	.7010	.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000
P/LS	.0000	.7010	.0000	.0000	.0000	.0000	.0000	1.0010	1.0010	1.0010	1.0010	1.0010	1.0010	1.0010

SECTION (1) INCREMENT PURCHASE DEPENDENT VARIABLE CP

P/LS	C200	.0200	.0419	.0700	.1100	.1500	.1670	.1760	.2030	.2300	.3010	.3700	.4000	.5100
P/LS	1.2000	.6000	1.0000	.6419	-.0023	-.0306	-.0101	-.1277	-.2214	-.3207	-.1910	-.1000	-.0007	
	.0000	.0012	.0216	-.0094	-.0555									
	.0200	.0400	.0455	.1196	-.0410									
	.2170	.0807	-.0006	-.0040	-.1001									
	.2947	.0704	-.0036	-.0105	-.0097									
	.2729	.1044	-.0478	-.0147	-.1114									
	.3519	.1922	.0084	.1305	.0433									
	.3743	.2737	.1935	.2393										
	.3071				.1991									
	.0020				.0020									
	.4000	-.0000	-.0002	-.0002	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000
	.7010	.7010	.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000
P/LS	.0000	.7010	.0000	.0000	.0000	.0000	.0000	1.0010	1.0010	1.0010	1.0010	1.0010	1.0010	1.0010

ALPHACI 20 * .010 BETAO (5) * 0.100

CND. PURCHASE

SECTION (1) INCREMENT PURCHASE DEPENDENT VARIABLE CP

P/LS	C200	.0200	.0419	.0700	.1100	.1500	.1670	.1760	.2030	.2300	.3010	.3700	.4000	.5100
P/LS	1.2000	.6000	1.0000	.6417	-.0410	-.0910	-.0404	-.1305	-.2214	-.3207	-.1910	-.1000	-.0007	
	.0000	.0012	.0216	-.0094	-.0555									
	.0200	.0400	.0455	.1196	-.0410									
	.2170	.0807	-.0006	-.0040	-.1001									
	.2947	.0704	-.0036	-.0105	-.0097									
	.2729	.1044	-.0478	-.0147	-.1114									
	.3519	.1922	.0084	.1305	.0433									
	.3743	.2737	.1935	.2393										
	.3071				.1991									
	.0020				.0020									
	.4000	-.0000	-.0002	-.0002	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000
	.7010	.7010	.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000	-.0000
P/LS	.0000	.7010	.0000	.0000	.0000	.0000	.0000	1.0010	1.0010	1.0010	1.0010	1.0010	1.0010	1.0010



ARC11-716 1A14 OL-112-SIDES CRB. FURBLAGE CR1818477

ALPHAO1 (1) = 4.125 BETA0 (1) = -8.110

SECTION (1) CRIBBITER FURBLAGE DEPENDENT VARIABLE CP

X/LB	0.000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PH1															
100.000															
100.000															
174.000															
100.000															
PH1															
100.000															
100.000															
174.000															
100.000															
PH1															
100.000															
100.000															
174.000															
100.000															

ALPHAO2 (2) = 4.100 BETA0 (2) = -4.050

SECTION (1) CRIBBITER FURBLAGE DEPENDENT VARIABLE CP

X/LB	0.000	.0000	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PH1															
100.000															
100.000															
174.000															
100.000															
PH1															
100.000															
100.000															
174.000															
100.000															
PH1															
100.000															
100.000															
174.000															
100.000															

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0819477

CRS. FUELRAGE

ARC11-716 1A14 CR-T12-S18ES

ALPHAX(4) = 4.100 BETA(2) = -4.050

SECTION (1) CRITTER FUELRAGE DEPENDENT VARIABLE CP

X/LB	.0000	.7800	.7610	.0250	.0420	.9250	.9650	1.0050	1.0210	1.0460
PHI										
.000	.1990	.1191	.0171	-.1919	-.3951	.0000	-.3543		-.2176	-.2356
40.000	.1659	.2105	.1577	.0130	-.6710	-.4857	-.4203		.0000	.0000
70.000	-.0465	-.2945	-.3987	.1146	-.1221	-.1847	-.1906			
90.000	-.0532	-.2411	-.1050	.0826	-.1600	-.2256	-.2117			
105.000		.1001	-.0509	-.2194	-.2832	-.2488				
110.000										-.1416
120.000	-.0865	-.1657	.1859	.1162	-.2778	-.2072	-.2507			-.1942
135.000			.4567	.1417	-.2682	-.0596	-.2060			
150.000	.0101	.0690	.3146	.1931	-.1556	-.0785	-.2503			
165.000	.0291		.2911		-.0102	-.0666	-.3535			
180.000	.0454	.1376	.2911	.3642						

ALPHAX(4) = 4.100 BETA(3) = .045

SECTION (1) CRITTER FUELRAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2940	.6741	.1308	.0091	-.0269	-.0799		-.0719	-.0759	-.1214	-.0945	-.1247	-.0097	.0640	
20.000		.1655	.0400	-.0072	-.1591		-.2041	-.2041	-.0499						
40.000			.3056	.0927	.1402		-.3127	-.3127	-.0811	-.1472	-.2277	-.1925	-.0004	.1431	
55.000			.3693	.1564	.0275	-.0660	-.1720	-.1720	-.0709						
70.000			.4163	.1750	-.0335	-.0865	-.0865	-.0865	-.0679	-.2286	-.3582	-.2944	-.0579		
90.000		.5982	.3749	.1754	-.0142	.0107	-.0906	-.0906	-.1066	-.5325	-.5611	-.3369	-.0451		
120.000			.3957	.1371	.0996	.1666	-.1609	-.1609	-.2643	-.5069	-.7432	-.3182	-.0510		
140.000									-.3886						
150.000			.3366	.2170	.1207	.2564			-.6605	-.6114	-.6072	-.3021	-.0201		
151.000									.3009						
156.000									.6230						
165.000									.3759						
169.000										-.6676	-.7079	-.5031	-.3426	-.0230	
180.000															
174.000															
180.000															
X/LB	.0000	.7500	.7610	.0250	.0420	.9250	.9650	1.0020	1.0210	1.0460					
PHI															
.000	.1447	.1082	.0115	-.2283	-.3543	.0000	-.3537		-.2591	-.2597					
40.000	.1375	.1414	.0726	-.1203	-.6528	-.4508	-.3176		.0000	.0000					
70.000	-.0648	-.2714	-.2296	.1014	-.1540	-.2169	-.2360								
90.000	-.0601	-.2042	-.0745	.0457	-.1961	-.2466	-.2577								
105.000			.0616	-.0674	-.2462	-.2916	-.2976								
110.000															-.3464

ORIGINAL PAGE IS OF POOR QUALITY

ALPHAO1 (4) = 4.100 BETA0 (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0330	.7800	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460
PHI										
120.000	.0130	.0108	.1279	.0031	-.3026	-.2465	-.3120	-.3318		
135.000			.3950	.2245	-.3166	-.2036	-.2937			
150.000	.0639	.1412	.3337	.2369	-.2207	-.2375	-.3390			
165.000	.0709	.3173		-.1024	-.2309	-.3713				
180.000	.0712	.1514	.3109	.4434						

ALPHAO1 (4) = 4.080 BETA0 (4) = 4.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2320	.6476	.1032	.0054	-.0663	-.0613		-.1937	-.0806	-.0374	-.0745	-.1453	-.0356	.0306	
20.000			.1091	-.0030	-.0715	-.1357		-.2330	-.0761						
40.000			.1699	-.0158	-.0792	-.1916		-.1847	-.0743	-.1835	-.2677	-.2466	-.0248	.0737	
55.000			.2201	.0048	-.0609	-.2032		-.2409	-.1255						
70.000			.2526	.0196	-.0665	-.1753		-.1669	-.1347	-.5860	-.4316	-.3321	-.0163		
90.000		.3233	.2085	.0276	-.1144	-.1230		-.1623	-.1937	-.6030	-.4863	-.3109	.0033		
120.000		.2842	.0720	-.0131	.0684			.0398	-.4314	-.5932	-.6015	-.2717	.0028		
140.000									-.6416						
150.000		.2809	.1717	.0703	.1778				-.7360	-.7873	-.3165	-.3515	-.0237		
151.000								.4994		.1745					
154.000									.2737						
165.000									-.6639	-.6227	-.4914	-.3632	-.0469		
169.000								.6847							
174.000						.7682									
180.000	1.2320	.5470	.3197	.2271	.1579	.2367		.6822	-.6134	-.6939	-.3219	-.3306	-.0626		

X/LB	.6530	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460
PHI										
.000	.0929	.0484	-.0751	-.4056	-.3701	.0000	-.3609		-.2250	-.2251
40.000	.0695	.0309	-.0360	-.2667	-.3573	-.4069	-.2936		.0000	.0000
70.000	-.0722	-.2344	-.1232	.0634	-.1962	-.2325	-.2804			
90.000	-.0263	-.1411	-.0473	.0087	-.2270	-.2785	-.3013			
105.000			.0365	-.0684	-.2726	-.3144	-.3336			
110.000										
120.000	.0370	.0309	.1207	-.1043	-.3327	-.3097	-.3769			
135.000			.4332	.2047	-.4270	-.3255	-.3690			
150.000	.0582	.1675	.3603	.3212	-.2880	-.3667	-.4337			
165.000	.0323	.3039								
180.000	.0461	.1618	.2534	.3723						



DATE 08 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ORIG. PURCHASE 0801047

MC11-716 1A14 04-T12-812E3

ALPHAO(4) = 4.000 BETA(5) = 8.250

SECTION (1) ORBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0200	.0470	.0760	.1120	.1500	.1670	.1760	.2030	.2320	.3010	.3700	.4990	.5700
PMT															
000	1.1200	.6268	.0487	-.0382	-.1165	-.1568	-.2249	-.2849	-.0472	-.1116	-.2037	-.2499	-.1303	-.0684	
20.000		.0117	-.0795	-.1245	-.1797	-.2666	-.2966	-.1679							
40.000		.0094	-.1070	-.1394	-.2333	-.1913	-.1913	-.1268	-.1268	-.3313	-.2049	-.0773	.0246		
55.000		.0492	-.1219	-.1543	-.2494	-.2422	-.1576								
70.000		.0938	-.1209	-.1602	-.2359	-.2036	-.1910	-.9035	-.4993	-.3397	-.0239				
90.000		.0464	.0806	-.0926	-.1609	-.2355	-.2461	-.3459	-.8497	-.5394	-.2817	.0035			
120.000		.1319	-.0364	-.1306	-.0302	-.0977	-.7730								
140.000		.1817	.1071	-.0033	.0693		-.7736	-.8534	-.5799	-.3683	-.0728				
171.000						.0133									
174.000						.3776									
176.000						.1743									
185.000						.9715									
189.000															
174.000															
180.000															

W/LB	.0000	.0200	.0470	.0760	.1120	.1500	.1670	.1760	.2030	.2320	.3010	.3700	.4990	.5700
PMT														
000	1.1200	.4474	.2656	.1703	.1205	.2158	.9776	.9541	-.6161	-.7209	-.6501	-.4371	-.1635	
20.000	.6830	.7300	.7610	.6230	.6220	.9230	1.0020	1.0810	1.0490					
40.000	.0174	-.0800	-.1325	-.5192	-.3835	.0000	-.3747	-.2655	-.2230					
60.000	.0371	.0230	-.0708	-.2386	-.3186	-.3902	-.2910	.0000	.0000					
70.000	-.0829	-.1639	-.0425	.0539	-.2215	-.2827	-.3037							
90.000	-.0808	-.0968	.0044	.0201	-.2337	-.3015	-.3264							
105.000		.0704	-.0416	-.3065	-.3610	-.3693	-.3620							
120.000	.0166	.0465	.1307	-.1293	-.3795	-.3535	-.4186	-.3660						
135.070		.3138	.1746	-.3096	-.4281	-.4728								
150.000	.0102	.1164	.2336	.2307	-.3189	-.4437	-.5245							
165.000	.0008	.2300	.2300	-.2413	-.4278	-.3624								
180.000	-.0210	.0918	.2304	.3037										

ALPHAO(5) = 8.050 BETA(1) = -6.000

SECTION (1) ORBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0200	.0470	.0760	.1120	.1500	.1670	.1760	.2030	.2320	.3010	.3700	.4990	.5700
PMT															
000	1.1400	.6876	.1746	-.0766	-.1338	-.1899	-.2808	-.0266	-.0266	-.0370	-.0423	.0337	.1274		
20.000		.3185	.0807	-.0463	-.2028	-.1520	-.1520	-.0044							
40.000		.6349	.2922	.1221	-.1031	-.3074	-.0928	-.0446	-.0412	-.0276	.0946	.2426			
55.000		.7321	.4780	.2813	.0636	-.0021	.0355								
70.000		.7304	.4737	.2882	.1191	.1043	.0448	-.3425	-.0364	-.0468	-.1659				
90.000		.6378	.4278	.2124	.1803	.1432	.0887	-.3549	-.1088	-.1708	-.2000				

MC11-716 1A14 OL112-61265 CRB. FUELSAGE (RC1847)

ALPHAO (1) = 0.000 BETA0 (1) = -0.000

SECTION (1) CRIBITER FUELSAGE DEPENDENT VARIABLE CP

X/LB	0.000	0.000	0.0250	0.0470	0.0700	0.1120	0.1500	0.1670	0.1700	0.2050	0.2220	0.3010	0.3750	0.4990	0.5760
PHI															
120.000			.4702	.2067	.1044	.1066		.3216		-.0071	-.3756	-.5433	-.6351	-.6999	
140.000										-.0650					
150.000			.2407	.0903	.0108	.1652				-.1871	-.6604	-.7596	-.5149	-.2162	
161.000								.4599							
170.000								.7276							
182.000								.4631		-.7495	-.6030	-.7541	-.4631	-.1317	
189.000								.7226							
196.000							.7425	.4724		-.6372	-.6265	-.6648	-.3632	-.0750	
200.000	1.1490	.4620	.1146	.0753	.0156	.1494									
X/LB	.6930	.7500	.7610	.6250	.6620	.9250	.9650	1.0020	1.0210	1.0460					

ALPHAO (2) = 0.000 BETA0 (2) = -4.040

SECTION (1) CRIBITER FUELSAGE DEPENDENT VARIABLE CP

X/LB	0.000	0.000	0.0250	0.0470	0.0700	0.1120	0.1500	0.1670	0.1700	0.2050	0.2220	0.3010	0.3750	0.4990	0.5760
PHI															
120.000			.0387	-.1657	-.4766	.0000	-.3118		-.1904	-.2107					
140.000			.0295	.0003	.0450	-.0551	-.0857	-.4174		.0000	.0000				
150.000			-.0870	-.3615	-.4681	-.1348	-.0840	-.0749	-.1141						
161.000			-.0044	-.3326	-.4290	-.0640	-.1599	-.1321	-.1462						
170.000					-.0826	-.1089	-.2037	-.2141	-.1256						
182.000			-.3844	-.4423	.0299	-.1948	-.3741	-.2074	-.0528	-.2009					
189.000					.1542	-.0572	-.4670	-.0684	-.1024	-.0896					
196.000			-.1368	-.0808	.1231	.0533	-.1828	-.0285	-.2375						
200.000	0.0001				.1249		-.0265	-.0346	-.3345						
X/LB	.6930	.7500	.7610	.6250	.6620	.9250	.9650	1.0020	1.0210	1.0460					



ARC11-716 IAI4 OUTSIDE-SIDES CRB. FUELRARE

081847

ALPHA4 81 = 0.000 BETA0 (3) = .000

SECTION (1) CRIBITER FUELRARE DEPENDENT VARIABLE CP

PHI	W/L/S	.6530	.7500	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0490
.000	.000	.1609	.1267	.0206	-.2250	-.3249	.0000	-.3018		-.1697	-.2134
40.000	.000	.1661	.1670	.0942	-.1102	-.6454	-.4186	-.3033		.0000	.0000
70.000	.000	-.0960	-.3100	-.3342	.0220	-.1677	-.2764	-.2971			
90.000	.000	-.0998	-.2799	-.1391	-.0834	-.2411	-.3003	-.3276			
105.000	.000		.0264	-.1666	-.2602	-.3739	-.3611				
110.000								-.3990			
120.000	-.0000	-.0000	-.0001	.0722	.0013	-.4019	-.2906	-.3634			
135.000			.0663	.3623	1.026	-.3996	-.2996	-.3416			
150.000	.0484	.0663	.3613	.2492	-.2823	-.3131	-.3066				
166.000	.0424	.0673	.0909	.2995	-.1532	-.3169	-.4015				
180.000	.0473	.0909	.2934	.4624							

ALPHA4 81 = 0.000 BETA0 (4) = 4.170

SECTION (1) CRIBITER FUELRARE DEPENDENT VARIABLE CP

PHI	W/L/S	.8000	.8800	.9200	.0470	.0700	.1120	.1990	.1670	.1700	.2030	.2010	.3790	.4990	.5700
.000	1.2000	.6401	.0542	-.0049	-.0894	-.1266			-.1425		-.0934	-.0426	-.0795	-.0092	.0677
20.000		.0302	-.0013	-.0549	-.1799				-.1085		-.0641				
40.000		.1223	-.0307	-.0570	-.1793				-.1811		-.0803	-.1470	-.1310	-.1116	.0122
55.000		.1623	.0166	-.0704	-.2242				-.2087		-.0907				
70.000		.2199	.0239	-.0619	-.1640				-.1963		-.0815	-.3909	-.3746	-.2939	-.0003
90.000	-.2794	.1611	.0149	-.1361	-.2024				-.1535		-.1617	-.3670	-.4456	-.3411	.0271
120.000		.2233	-.0364	-.0780	-.0107				.0966		-.3973	-.3970	-.7673	-.6964	.0396
140.000											-.3966				
150.000		.1977	.1032	-.0236	.1079					.1673					
174.000									.4910						
182.000										.2986					
189.000											-.7248	-.6862	-.6403	-.3180	.0319
174.000	1.2000	.4441	.2232	.1360	.0446	.1713									
160.000	.6000	.7900	.7910	.9230	.6620	.9230	.9630	1.0020	1.0210	1.0490					

SECTION (1) CRIBITER FUELRARE DEPENDENT VARIABLE CP

PHI	W/L/S	.8000	.8800	.9200	.0470	.0700	.1120	.1990	.1670	.1700	.2030	.2010	.3790	.4990	.5700
.000	.1247	.0303	-.0260	-.3639	-.3493	.0000	-.3367								
40.000	.1134	.0333	-.0094	-.2436	-.3723	-.3749	-.2742								
70.000	-.1130	-.2000	-.2169	.0023	-.2419	-.2934	-.3307								
90.000	-.0681	-.2000	-.0907	-.0462	-.2179	-.3392	-.3979								
105.000		.0687	-.1166	-.3612	-.3613	-.3679									
110.000															



DATE ON DEC 74 TABULATED PRESSURE DATA - IA14A - VOL. 3

(M81847)

CRG. FUSBLAKE

ARC11-716 IA14 CR-TIE-SIZES

ALPHA01 N = 0.000 BETAC (4) = 4.170

SECTION (1) CRITTER FUSBLAKE DEPENDENT VARIABLE CP

N/LB	.0000	.7500	.7610	.0250	.0400	.0600	.0800	.9400	1.0000	1.0210	1.0400
PWT											
100.000	.0150	-.0100	.0200	-.1100	-.3054	-.5036	-.6245	-.4002			
130.000	.0125	.1905	-.0212	-.3026	-.4322						
160.000	.0000	.0042	.3005	.3030	-.3232	-.4106	-.5040				
180.000	.0400	.0400	.2500	-.2105	-.4355	-.5517					
200.000	.0000	.0712	.2500	.4000							

ALPHA01 N = 0.000 BETAC (5) = 0.500

SECTION (1) CRITTER FUSBLAKE DEPENDENT VARIABLE CP

N/LB	.0000	.0000	.0200	.0470	.0700	.1100	.1670	.2050	.2500	.3010	.3700	.4600	.5700
PWT													
.000	1.1210	.0002	.0057	-.0031	-.1074	-.1063	-.2202	-.0937	-.0991	-.1340	-.1417	-.0820	-.0107
50.000		-.0450	-.1077	-.1071	-.2005		-.2407	-.1204					
60.000		-.0240	-.1205	-.1065	-.2074		-.1300	-.0705	-.2170	-.2307	-.1939	-.0212	.0091
90.000		-.0072	-.1500	-.1702	-.3008		-.1215	-.0705					
70.000		.0454	-.1500	-.1095	-.2702		-.1992	-.1443	-.3779	-.4453	-.3015	-.0109	
90.000		-.0014	.0027	-.1519	-.2409	-.3004	-.2382	-.1972	-.0120	-.2040	-.2000	-.0230	
120.000		.0016	-.1000	-.1014	-.0040		-.0930	-.0400	-.0644	-.0644	-.0644	-.0405	
140.000		.0030	.0137	-.0000	.0040			-.0043	-.0054	-.0054	-.0054	-.0025	
150.000							-.0117						
160.000							.3537						
160.000									-.0002	-.0002	-.0002	-.0002	
170.000													
180.000													
190.000													
200.000													

N/LB	.0000	.7500	.7610	.0250	.0400	.0600	.0800	.9400	1.0000	1.0210	1.0400
PWT											
.000	.0000	.0010	-.1070	-.4770	-.4715	.0000	-.3207				
40.000	.0007	.0001	.0010	-.2706	-.3132	-.3755	-.2771				
70.000	-.1202	-.2754	-.0003	.0070	.0010	-.3405	-.3009				
90.000	-.0725	-.2073	-.0224	-.0310	-.3102	-.3570	-.3037				
100.000		.0501	-.0000	-.3000	-.4000	-.4112					
110.000		.0010	-.0002	.1253	-.1251	-.4300	-.4700				
120.000			.0004	.1040	-.3030	-.4000	-.5100				
130.000		-.0000	.0017	.2790	-.2100	-.3412	-.4072				
140.000		-.0400	.1753	-.2050	-.4005	-.3900					
150.000		-.0474	-.0370	.1200	-.2301						

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 1A14 01+T12+S12M25

CRG. FUSELAGE

(R01848) (15 FEB 74)

REFERENCE DATA

REF = 2.4210 80.FT. XMRP = 29.2600 INCHES
 LREF = 38.7090 INCHES YMRP = .0000 INCHES
 BRP = 38.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAO (1) = -7.930 BETAO (1) = -8.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0080	.0200	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PMI	.000	1.2060	.6412	.2870	.1755	.1364	.0581	.0200	-.0226	-.1334	-.1329	-.2036	-.1966	.0015	
20.000			.3408	.2385	.1778	.1011		-.0487	.0347						
40.000			.5703	.3174	.2531	.1571		.0153	.0159	-.0474	-.0480	-.1111	-.1214	.1459	
50.000			.7295	.4951	.3766	.2712		.1441	.0417						
70.000			.8134	.5613	.4480	.3632		.2253	.0771	-.3650	-.0948	-.0691	-.0141		
90.000		1.0450	.8345	.6513	.4826	.4176		.2445	.1054	-.2692	-.1868	-.0669	-.0141		
120.000			.8375	.6440	.5087	.5594		.4005	.1140	-.2194	-.4859	-.0973	-.0624		
140.000									.1560						
150.000			.7543	.6222	.5671	.5860		.6034	.1353	-.5436	-.3154	-.1274	-.1269		
170.000								.8769							
176.000								.6485							
182.000															
185.000															
188.000															
174.000															
180.000															
Y/LB	.0000	.7000	.7010	.8230	.8680	.8630	.9630	1.0200	1.0210	1.0480					

PARAMETRIC DATA

MACH = 1.100 ELEVON = .000
 RUDDER = .000 SPOILER = .000

PMI	.000	.0146	-.0129	-.0196	-.0378	-.6045	.0000	-.4101
40.000		-.0280	-.1291	.1067	.0380	-.5948	-.7378	-.5816
70.000		.0769	-.0785	.1921	.3083	.1403	.2106	.1436
90.000		.0038	-.0240	.2491	.3087	.1133	.1885	.1270
100.000			.3485	.2453	.1095	.1388	.0969	
114.000							-.1918	
120.000	.8411	.0423	-.4821	.3243	.1374	.1482	.1078	-.0700
134.000		.6408	.3652	.2080	.2195	.0964		
150.000	-.8413	.2840	.4974	.3081	.3026	.2387	-.0469	
160.000	-.0405	-.4347	.3993	.2638	-.1656			
160.000	-.8711	.8432	.4209	.5704				



ALPHAO (1) = -7.950 BETA0 (2) = -4.020

ARC11-716 1A14 01-712-812MS ORG. PUBLNAME 0801848

SECTION (1) ORBITER PUBLNAME DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1360	.1670	.1700	.2000	.2200	.3010	.3700	.4900	.5700
PWT															
000	1.3140	.0761	.3156	.2002	.1732	.0759		.1032		-.0452	-.0202	-.1209	-.1909	-.1967	-.0040
20	.3250		.3250	.2442	.1926	.0313		-.0209		-.0083					
40	.0000		.3010	.2847	.2071	.0767		.0155		-.1956	-.0000	-.1322	-.1015	-.1219	.0065
50	.0000		.0162	.3039	.2824	.1700		.0703		-.0415					
70	.0000		.0027	.4502	.2532	.2799		.1306		-.0165	-.4521	-.2037	-.1474	-.0703	
90	.0000	.0074	.7082	.5036	.3790	.2508		.1370		-.0184	-.3676	-.3190	-.1340	-.0084	
100	.0000	.7537	.5448	.0943	.4028			.3543		-.0301	-.2306	-.3602	-.1240	-.0937	
140	.0000		.7235	.6135	.5427	.9003				-.2074	-.5131	-.3196	-.1701	-.1040	
150	.0000							.8291							
160	.0000							.0021							
162	.0000							.0024							
168	.0000							.0000		-.4369	-.4036	-.2765	-.2007	-.1250	
174	.0000							.0000							
180	.0000	1.3140	.0647	.0700	.5010	.5759	.9076	.0000		-.2614	-.4115	-.2200	-.2232	-.1272	
182	.0000	.0000	.7000	.7010	.0020	.0020	.9400	1.0000	1.0000						

SECTION (2) ORBITER PUBLNAME DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1360	.1670	.1700	.2000	.2200	.3010	.3700	.4900	.5700
PWT															
000	1.3140	.0761	.3156	.2002	.1732	.0759		.1032		-.0452	-.0202	-.1209	-.1909	-.1967	-.0040
20	.3250		.3250	.2442	.1926	.0313		-.0209		-.0083					
40	.0000		.3010	.2847	.2071	.0767		.0155		-.1956	-.0000	-.1322	-.1015	-.1219	.0065
50	.0000		.0162	.3039	.2824	.1700		.0703		-.0415					
70	.0000		.0027	.4502	.2532	.2799		.1306		-.0165	-.4521	-.2037	-.1474	-.0703	
90	.0000	.0074	.7082	.5036	.3790	.2508		.1370		-.0184	-.3676	-.3190	-.1340	-.0084	
100	.0000	.7537	.5448	.0943	.4028			.3543		-.0301	-.2306	-.3602	-.1240	-.0937	
140	.0000		.7235	.6135	.5427	.9003				-.2074	-.5131	-.3196	-.1701	-.1040	
150	.0000							.8291							
160	.0000							.0021							
162	.0000							.0024							
168	.0000							.0000		-.4369	-.4036	-.2765	-.2007	-.1250	
174	.0000							.0000							
180	.0000	1.3140	.0647	.0700	.5010	.5759	.9076	.0000		-.2614	-.4115	-.2200	-.2232	-.1272	
182	.0000	.0000	.7000	.7010	.0020	.0020	.9400	1.0000	1.0000						

ALPHAO (1) = -7.950 BETA0 (3) = .040

SECTION (3) ORBITER PUBLNAME DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1360	.1670	.1700	.2000	.2200	.3010	.3700	.4900	.5700
PWT															
000	1.3140	.0627	.3171	.2109	.1623	.0602		.0017		-.0430	-.1131	-.2332	-.2430	-.0816	.0020
20	.0000		.3351	.2311	.1725	.0395		-.0014		-.1023					
40	.0000		.4231	.2403	.1633	.0433		-.1344		-.1744	-.2423	-.2001	-.1623	-.1033	.0091
50	.0000		.4003	.2307	.1602	.0921		-.0322		-.0831					
70	.0000		.3507	.3303	.2129	.1698		.0330		-.1047	-.5137	-.3094	-.1623	-.0095	
90	.0000	.7333	.5015	.3023	.2367	.1940		.0360		-.1537	-.4323	-.4463	-.1612	-.0097	

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 1A16 CH-T12-MS12MS CFB. PUBLAGE (MS1048)

ALPHAO1 (1) = -7.988 BETA0 (3) = .040

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.9760
PWT															
120.000		.6005	.4634	.3634	.3036		.2422								
140.000															
130.000		.6008	.5870	.5127	.9285										
191.000															
198.000															
162.000															
169.000															
174.000															
160.000		1.3020	.9896	.6841	.6117	.5368	.5907	.9793							
160.000		.6000	.7300	.7810	.8230	.8620	.9230	.9480	1.0210	1.0460					

M/LB .0000 .0090 .0230 .0470 .0700 .1120 .1390 .1670 .1760 .2030 .2320 .3010 .3790 .4990 .9760

PWT

.000	.0230	-.0461	-.1017	-.1106	-.3940	.0000	-.3695								
40.000	-.0059	-.0371	-.0961	-.1468	-.6005	-.4622	-.4536								
70.000	.1000	.1261	.1755	.2254	.0061	.0108									
90.000	.1128	.1795	.2176	.1961	-.0234	-.0213	-.0446								
109.000		.2602	.1191	-.0750	-.0710	-.0729									
110.000															
120.000	.1134	.2467	.2526	.0459	-.1303	-.0520	-.1311								
139.000		.7140	.3543	-.1663	-.0320	-.1104									
150.000	.0791	3.464	.6026	.5453	-.0206	-.0138	-.2043								
166.000	.0879	.9223		.0921	-.0142	-.2948									
160.000	.0577	3.424	.5937	.6979											

ALPHAO1 (1) = -7.988 BETA0 (4) = 4.000

SECTION (1) ORBITER PUBLAGE DEPENDENT VARIABLE CP

M/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.9760
PWT															
.000	1.2960	.6480	.2723	.2091	.1214	.0488									
80.000		.2734	.1903	.1217	.0223										
40.000		.3608	.1917	.0964	.0149										
91.000		.3737	.1903	.0908	.0356										
70.000		.4203	.2170	.0976	.0001										
90.000		.5375	.4472	.2472	.0826	.0917									
120.000		.9267	.3993	.2324	.2753										
140.000															
150.000		.6091	.9191	.6417	.4491										
191.000															
198.000															
162.000															



8001040

CRS. PUBLAGE

ARC11-716 1A14 CR-716-5126CS

ALPHAX 1) = -7.900 BETAO (1) = 0.250

SECTION 1 110BITTER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7500	.7610	.8250	.8600	.9050	.9400	1.0000	1.0210	1.0400
PHI										
.000										
40.000										
70.000										
90.000										
105.000										
110.000										
120.000										
130.000										
140.000										
160.000										

ALPHAX 2) = -3.940 BETAO (1) = -0.110

SECTION 1 110BITTER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1390	.1670	.1760	.2050	.2300	.3010	.3790	.4000	.5700
PHI															
.000															
30.000															
40.000															
50.000															
70.000															
90.000															
100.000															
120.000															
140.000															
160.000															

SECTION 1 110BITTER PUBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7500	.7610	.8250	.8600	.9050	.9400	1.0000	1.0210	1.0400
PHI										
.000										
40.000										
70.000										
90.000										
105.000										
110.000										
120.000										
130.000										
140.000										
160.000										



DATE ON DEC 14 TEMPLATED PRODUCE DATA - 1A14A - VOL. 3

ARC11-716 1A14 OLT15M15M15S CDB. PURCHASE 00010001

ALPHA01 21 0 -3.048 DELTA0 (1) = -0.119

SECTION (1) : CARRIER PURCHASE SEP-DIC-87 VARIABLE CP

W/L	0.000	.7500	.7010	.0220	.0400	.0220	.0400	1.0000	1.0000	1.0000	1.0000
PW1											
100.000	-0.004	-0.046	.3470	.3030	-0.040	.0470	.0577	-0.0641			
124.000			.9434	.2710	.1200	.1410	.0227				
148.000	-0.049	.0222	.3700	.2700	.0271	.1901	-0.0007				
168.000	-0.0214		.3731		.2044	.1500	-0.1040				
188.000	-0.0046	.1572	.3000	.0000							

ALPHA01 21 0 -3.048 DELTA0 (2) = -0.020

SECTION (1) : CARRIER PURCHASE SEP-DIC-87 VARIABLE CP

W/L	0.000	0.000	0.0200	0.0470	0.0700	0.1100	0.1000	0.1000	0.2000	0.2000	0.3700	0.4000	0.5700
PW1													
00.000	1.2000	.7070	.2000	1.040	.1200	-0.0000	.0000						
20.000			.2000	.2044	.1924	-0.0040	-0.0000						
40.000			.2000	.2000	.1775	.0510	.0000						
60.000			.0000	.2000	.2700	.1900	.0000						
80.000				.0000	.0000	.2000	.2000						
100.000				.0000	.0000	.2000	.2000						
120.000				.0000	.0000	.0000	.0000						
140.000				.0000	.0000	.0000	.0000						
160.000				.0000	.0000	.0000	.0000						
180.000				.0000	.0000	.0000	.0000						
200.000				.0000	.0000	.0000	.0000						
220.000				.0000	.0000	.0000	.0000						
240.000				.0000	.0000	.0000	.0000						
260.000				.0000	.0000	.0000	.0000						
280.000				.0000	.0000	.0000	.0000						
300.000				.0000	.0000	.0000	.0000						
320.000				.0000	.0000	.0000	.0000						
340.000				.0000	.0000	.0000	.0000						
360.000				.0000	.0000	.0000	.0000						
380.000				.0000	.0000	.0000	.0000						
400.000				.0000	.0000	.0000	.0000						

ALPHA01 21 0 -3.048 DELTA0 (3) = -0.000

SECTION (1) : CARRIER PURCHASE SEP-DIC-87 VARIABLE CP

W/L	0.000	.7500	.7010	.0220	.0400	.0220	.0400	1.0000	1.0000	1.0000	1.0000
PW1											
00.000	.0470	.0000	-0.0001	-0.1270	-0.3000	0.0000	-0.3000				
20.000	.0000	.0400	.0100	-0.0011	-0.7041	-0.4000	-0.4000				
40.000	.0000	-0.0400	.0000	.2000	-0.0000	.0000	.0000				
60.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
80.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
100.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
120.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
140.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
160.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
180.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
200.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
220.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
240.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
260.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
280.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
300.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
320.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
340.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
360.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
380.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				
400.000	.0000	-0.0000	.0000	.0000	-0.0000	.0000	.0000				

ARC11-716 1A14 OL+T12+S12N23 CRB. FUSELAGE (R81848)

ALPHAO (2) = -3.892 BETAO (3) = .030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3140	.7016	.2755	.1647	.1001	.0486		-.0042	-.0474	-.0978	-.2275	-.2374	-.0706	.0111	
20.000			.3081	.1816	.1084	.0119		-.1117	-.0862						
40.000			.4051	.2068	.1084	.0113		-.1899	-.1570	-.1714	-.2050	-.2069	-.0840	.0635	
55.000			.4789	.2613	.1455	.0686		-.0562	-.0875						
70.000			.5234	.2933	.1560	.1286		.0319	-.0888	-.3208	-.3064	-.2439	-.1174		
90.000		.6863	.5329	.3309	.1877	.1643		.0434	-.1486	-.4608	-.4101	-.2217	-.1172		
120.000			.5828	.3682	.3195	.3487		.2428	-.1923	-.4388	-.6382	-.2090	-.1266		
140.000									-.2728						
150.000			.5855	.4951	.4177	.4550			-.4832	-.5648	-.3656	-.2628	-.1118		
151.000								.4053							
156.000								.7098							
162.000								.4902							
169.000								.8255							
174.000							.9367	.8082							
180.000	1.3140	.8311	.5843	.3078	.4827	.5097			-.4872	-.5972	-.2783	-.2724	-.0981		
W/LB	.6330	.7300	.7810	.6230	.8820	.9230	.9530	1.0020	1.0210	1.0480					

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2960	.6634	.2332	.1555	.0775	.0482		-.0191	-.0812	-.1811	-.2836	-.2978	-.1531	-.0540	
20.000			.2401	.1492	.0742	.0033		-.0846	-.1231						
40.000			.2937	.1451	.0472	.0026		-.0588	-.1407	-.1419	-.2390	-.2748	-.1088	-.0014	
55.000			.3438	.1562	.0480	.0299		-.1065	-.1537						
70.000			.3881	.1709	.0443	.0789		-.0188	-.1800	-.5889	-.3973	-.2748	-.0634		
90.000		.4872	.4043	.2027	.0536	.0849		-.0724	-.2435	-.5843	-.3220	-.2477	-.0951		

ALPHAO (2) = -3.890 BETAO (4) = 4.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2960	.6634	.2332	.1555	.0775	.0482		-.0191	-.0812	-.1811	-.2836	-.2978	-.1531	-.0540	
20.000			.2401	.1492	.0742	.0033		-.0846	-.1231						
40.000			.2937	.1451	.0472	.0026		-.0588	-.1407	-.1419	-.2390	-.2748	-.1088	-.0014	
55.000			.3438	.1562	.0480	.0299		-.1065	-.1537						
70.000			.3881	.1709	.0443	.0789		-.0188	-.1800	-.5889	-.3973	-.2748	-.0634		
90.000		.4872	.4043	.2027	.0536	.0849		-.0724	-.2435	-.5843	-.3220	-.2477	-.0951		

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 1A14 CH+T12+S12ES CRB. FUSLAGE (R81048)

ALPHAX (2) = -3.000 BETA0 (4) = 4.130

SECTION (1) ORBITER FUSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2920	.3010	.3790	.4990	.5760
PH1															
120.000			.4676	.2721	.1644	.2450	1.091			-.3433	-.9234	-.7610	-.3219	-.1396	
140.000										-.5354					
150.000			.5125	.4222	.3404	.3624				-.5466	-.2992	-.3465	-.3295	-.1499	
151.000								.2625							
156.000								.3961							
162.000										-.4609	-.8099	-.3116	-.3143	-.1317	
165.000															
169.000								.7675							
174.000															
180.000	1.2360	.7930	.5782	.4620	.4432	.4662	.6663	.7636		-.6323	-.4614	-.3118	-.2065	-.1494	
X/LB	.6530	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					

PH1

.000	-.0170	-.0302	-.1113	-.3976	-.3606	.0000	-.3632			-.2610	-.2660				
40.000	-.0312	-.0433	-.1147	-.2916	-.3315	-.4257	-.3746			.0000	.0000				
70.000	.0267	.0425	.0774	.1620	-.0917	-.1266	-.1463								
80.000	.0779	.1141	.1212	.1157	-.1163	-.1470	-.1774								
105.000			.1606	.0307	-.1713	-.1964	-.1934								
110.000															
120.000	.0697	.1636	.0643	-.1170	-.2947	-.1679	-.2397								
134.000			.5356	.2637	-.3471	-.2692	-.2802								
150.000	.0825	.2697	.5069	.5176	-.1596	-.2414	-.3096								
160.000	.0919	.4899	.4899	-.0399	-.2269	-.3849									
180.000	.0690	.2660	.4469	.5427											

ALPHAX (2) = -3.000 BETA0 (5) = 6.190

SECTION (1) ORBITER FUSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2090	.2920	.3010	.3790	.4990	.5760
PH1															
.000	1.2360	.9936	.1916	.1106	.0642	.0195				-.1269	-.3013	-.3597	-.3646	-.1701	-.1373
20.000			.1304	.0727	.0420	-.0271				-.2081					
40.000			.1479	.0908	.0029	-.0646				-.2814	-.2316	-.3134	-.3646	-.1746	-.0634
55.000			.1919	.0903	-.0134	-.0365				-.1936					
70.000			.2365	.0399	-.0287	.0220				-.2317	-.6440	-.4906	-.3035	-.0607	
90.000	.2476	.2607	.0373	-.0642	-.0294					-.3230	-.6427	-.3969	-.2965	-.0607	
120.000			.3217	.1236	.0491	.1046				-.4851	-.6197	-.7657	-.4666	-.1236	
140.000										-.6562					
150.000			.3795	.3373	.2311	.2786				-.7634	-.6856	-.3914	-.4070	-.2269	
151.000															
156.000								.4757							
162.000															
180.000															

ORIGINAL PAGE IS OF POOR QUALITY

ARC11-716 1A14 OL+712+S12M25 ORB. FUSELAGE (RB1848)

ALPHAX(2) = -3.000 BETA0(5) = 0.190

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI	166.000														
	169.000														
	174.000							.6865							
	180.000	1.2320	.7195	.5246	.4321	.3932	.4480	.6020							
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI	.000	-.0933	-.0823	-.1563	-.4842	-.4366	.0000	-.3793							
	40.000	-.0984	-.0817	-.1475	-.3227	-.2681	-.3922	-.3608							
	70.000	.0306	.0396	.0434	.1912	-.1328	-.1736	-.1937							
	90.000	.0465	.1010	.0783	.0905	-.1764	-.1962	-.2231							
	105.000		.1541		.0421	-.2223	-.2320	-.2386							
	110.000														
	120.000	.0426	.1740	-.0412	-.3012	-.3901	-.2711	-.3497	-.3774						
	135.000		.3996	.1147	-.5147	-.5249	-.4530								
	150.000	.0080	.2189	.4820	.5894	-.2274	-.3463	-.4966							
	165.000	-.0111		.4392		-.1175	-.3020	-.4229							
	180.000	-.0210	.1685	.3965	.5341										

ALPHAX(3) = -.310 BETA0(1) = -6.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.2430	.7009	.2668	.0973	.0379	-.0093								
	20.000		.5373	.1736	.0942	.0770									
	40.000		.5069	.2004	.1795	.1417									
	55.000		.7209	.4918	.3193	.2365									
	70.000		.7396	.5042	.3575	.3138									
	90.000	.9486	.7317	.5106	.3510	.3416									
	100.000		.6743	.4592	.3988	.4281									
	140.000			.3242	.4072	.3479	.4282								
	150.000														
	151.000														
	154.000														
	162.000														
	165.000														
	169.000														
	174.000														
	180.000	1.2430	.7106	.4080	.3434	.3001	.3846								
X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					



ARC11-716 1A14 01-112-C12M25

(R81848)

ORB. FUELAGE

ALPHAO (3) = -.330 BETA0 (2) = -4.040

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0373	-.0431	.2837	.1837	-.1861	-.0733	-.1369	-.1842		
135.000			.5592	.2906	-.1392	.0169	-.0966			
150.000	.0140	.1790	.4100	.3230	-.0394	.0431	-.2046			
165.000	.0248		.3908		.1014	.0341	-.2924			
180.000	.0371	.2314	.3693	.4950						

ALPHAOX (3) = -.340 BETA0X (3) = .030

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2380	.3010	.3790	.4990	.5760
PHI															
1.3300	.7089	.2222	.0920	.0397	.0203		.0373								
20.000	.2801	.1112	.0454	-.0390		.0170									
40.000	.3766	.1337	.0419	-.0357		-.0295									
50.000	.4306	.2118	.0622	.0398		-.0441									
70.000	.4873	.2435	.1032	.0675		.0434									
90.000	.6413	.4543	.2615	.1127	.1136	.0460									
120.000	.3121	.2690	.2270	.2900	.2293										
150.000	.4075	.3635	.3047	.3651											
191.000									.3772						
196.000									.6066						
162.000															
165.000															
168.000															
174.000															
180.000	1.3300	.7366	.4782	.4030	.3569	.4313	.9055								
186.000															
190.000	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

X/LB	.6530	.7500	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0812	.0724	.0017	-.1781	-.3331	.0000	-.3438			
40.000	.0586	.0834	.0682	-.0615	-.5688	-.4606	-.3765			
70.000	-.0322	-.1820	-.0619	.1427	-.0637	-.0886	-.1199			
90.000	.0082	-.1005	-.0234	.1042	-.1046	-.1190	-.1392			
105.000			.1196	.0191	-.1461	-.1590	-.1642			
110.000										
120.000	.0377	.0951	.1805	.0501	-.2141	-.1333	-.2012	-.3070		
135.000			.4295	.3569	-.2232	-.1156	-.1694	-.2315		
150.000	.0886	.1580	.4176	.4100	-.1186	-.1312	-.2793			
165.000	.0670		.3908		.0161	-.1403	-.3266			
180.000	.0791	.2091	.3884	.4809						



(R01848)

CRG. FUELSLARE

ARC11-716 1A14 01+712+312E23

ALPHAO (3) = -.340 BETAO (4) = 4.110

SECTION (1) XMITTER FUELSLARE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PH1	1.3010	.0765	.1838	.0905	.0306	.0427		-.0309		-.0705	-.1479	-.1827	-.1906	-.1327	-.0248
20.000			.1924	.0930	.0306	-.0139		-.0725		-.1139					
40.000			.2951	.0967	.0076	-.0954		-.1800		-.0679	-.1283	-.2455	-.2720	-.0461	.0221
55.000			.3069	.1111	.0075	-.0333		-.1311		-.1172					
70.000			.3449	.1255	.0055	-.0051		-.0406		-.1804	-.5311	-.3725	-.2931	-.0910	
90.000		.4385	.3360	.1561	.0134	-.0186		-.1006		-.2374	-.5615	-.4466	-.2642	-.0875	
120.000			.4053	.2091	.1229	.1782		.1034		-.3332	-.5540	-.7485	-.2645	-.1064	
140.000										-.5460					
150.000		.4276	.3284	.2480	.3110					-.2999	-.6440	-.4136	-.3443	-.1233	
171.000								.5723		-.2593					
196.000									.3671						
162.000										-.5355	-.0638	-.3846	-.3936	-.1285	
169.000															
174.000															
180.000	1.3010	.6883	.4798	.3854	.3412	.4095	.6912	.7924		-.6826	-.5375	-.3684	-.3064	-.1304	

ALPHAO (3) = -.340 BETAO (5) = 6.180

SECTION (1) XMITTER FUELSLARE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PH1	1.3010	.0765	.1838	.0905	.0306	.0427		-.0309		-.0705	-.1479	-.1827	-.1906	-.1327	-.0248
20.000			.1924	.0930	.0306	-.0139		-.0725		-.1139					
40.000			.2951	.0967	.0076	-.0954		-.1800		-.0679	-.1283	-.2455	-.2720	-.0461	.0221
55.000			.3069	.1111	.0075	-.0333		-.1311		-.1172					
70.000			.3449	.1255	.0055	-.0051		-.0406		-.1804	-.5311	-.3725	-.2931	-.0910	
90.000		.4385	.3360	.1561	.0134	-.0186		-.1006		-.2374	-.5615	-.4466	-.2642	-.0875	
120.000			.4053	.2091	.1229	.1782		.1034		-.3332	-.5540	-.7485	-.2645	-.1064	
140.000										-.5460					
150.000		.4276	.3284	.2480	.3110					-.2999	-.6440	-.4136	-.3443	-.1233	
171.000								.5723		-.2593					
196.000									.7410						
162.000										-.5355	-.0638	-.3846	-.3936	-.1285	
169.000															
174.000															
180.000	1.3010	.6883	.4798	.3854	.3412	.4095	.6912	.7924		-.6826	-.5375	-.3684	-.3064	-.1304	

ALPHAO (3) = -.340 BETAO (5) = 6.180

SECTION (1) XMITTER FUELSLARE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PH1	1.3010	.0765	.1838	.0905	.0306	.0427		-.0309		-.0705	-.1479	-.1827	-.1906	-.1327	-.0248
20.000			.1924	.0930	.0306	-.0139		-.0725		-.1139					
40.000			.2951	.0967	.0076	-.0954		-.1800		-.0679	-.1283	-.2455	-.2720	-.0461	.0221
55.000			.3069	.1111	.0075	-.0333		-.1311		-.1172					
70.000			.3449	.1255	.0055	-.0051		-.0406		-.1804	-.5311	-.3725	-.2931	-.0910	
90.000		.4385	.3360	.1561	.0134	-.0186		-.1006		-.2374	-.5615	-.4466	-.2642	-.0875	
120.000			.4053	.2091	.1229	.1782		.1034		-.3332	-.5540	-.7485	-.2645	-.1064	
140.000										-.5460					
150.000		.4276	.3284	.2480	.3110					-.2999	-.6440	-.4136	-.3443	-.1233	
171.000								.5723		-.2593					
196.000									.7410						
162.000										-.5355	-.0638	-.3846	-.3936	-.1285	
169.000															
174.000															
180.000	1.3010	.6883	.4798	.3854	.3412	.4095	.6912	.7924		-.6826	-.5375	-.3684	-.3064	-.1304	

ARC11-716 1A14 OL-718-812MS (R81048)

ALPHAOX 3) = -.540 BETAO (5) = 0.100

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
120.000		.2661	.0737	-.0144	.0567			-.0407		-.4814	-.6587	-.8136	-.3759	-.0947	
140.000										-.6763					
160.000		.3159	.2485	.1591	.2061					-.6557	-.7280	-.4624	-.4607	-.2142	
174.000						.4501					.1015				
182.000											.2626				
188.000										-.9953	-.6168	-.4660	-.4024	-.2623	
194.000						.6323									
196.000							.7634								
198.000	1.3220	.6129	.4216	.3262	.2912	.3590		.6470		-.6923	-.5622	-.4889	-.3547	-.2861	
199.000															
200.000	.6630	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

0.000	-.0183	-.0298	-.1164	-.4743	-.4236	.0000	-.3688								
40.000	-.0041	-.0093	-.0807	-.2697	-.3196	-.3690	-.3492								
70.000	-.0185	-.0911	-.0116	.1166	-.1341	-.1966	-.2208								
90.000	.0137	.0295	.0296	.0707	-.1813	-.2242	-.2370								
105.000			.1045	.0034	-.2282	-.2637	-.2629								
110.000								-.3945							
120.000	.0337	.1375	.0711	-.2444	-.3336	-.2833	-.3359								
136.000			.2736	.1634	-.3176	-.3169	-.4242								
150.000	.0260	.1893	.3582	.3220	-.2630	-.3632	-.3253								
164.000	.0146		.3374		-.1356	-.3433	-.4195								
180.000	.0114	.1009	.3330	.4305											

ALPHAOX 4) = 4.170 BETAO (1) = -0.230

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	1.2100	.7298	.2639	.0206	-.0466	-.1175		-.3000		-.1100	-.0164	-.0630	-.0457	-.0295	.1095
40.000			.3905	.1603	.0308	-.1005		-.3135		.0299					
55.000			.6375	.3116	.1614	-.0211		-.2756		-.0353	-.0060	-.0730	-.0693	-.0533	.2291
70.000			.7295	.4649	.3133	.1410		.0417		.0926					
90.000			.7620	.4993	.3197	.2071		.1400		.0950	-.2931	-.0337	-.0956	-.1550	
90.000		.9372	.7029	.4849	.2944	.2351		.1856		.1131	-.2960	-.1046	-.1535	-.1690	
12.000			.5854	.3220	.2366	.3085		.3683		.0312	-.2920	-.4866	-.4660	-.4341	
140.000										-.0146					
150.000			.3921	.2675	.2001	.3049				-.0672	-.7183	-.6183	-.3949	-.3667	
171.000															
194.000								.7318							
182.000															



(081844)

CRB. PUBLAGE

ALPHA01 4) = 4.170 BETA0 (1) = -0.250

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

Y/L/S	.0000	.0000	.0250	.0470	.0700	.1120	.1500	.1670	.1700	.2050	.2520	.3010	.3750	.4990	.5700
PHI															
100.000								.7956							
100.000							.0392								
174.000								.9772							
100.000	1.2100	.6002	.2907	.2174	.1801	.2773									
Y/L/S	.0000	.7800	.7610	.0250	.0450	.0450	.9250	.9450	1.0210	1.0400					

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ALPHA01 4) = 4.100 BETA0 (2) = -4.050

SECTION (1) CRIBITER PUBLAGE DEPENDENT VARIABLE CP

Y/L/S	.0000	.0000	.0250	.0470	.0700	.1120	.1500	.1670	.1700	.2050	.2520	.3010	.3750	.4990	.5700
PHI															
100.000															
27.000															
40.000															
50.000															
70.000															
90.000															
100.000	1.3000	.7004	.1630	.0261	.0121	-.0691									
Y/L/S	.0000 <td>.0000 <td>.0250 <td>.0470 <td>.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.2520 <td>.3010 <td>.3750 <td>.4990 <td>.5700 </td></td></td></td></td></td></td></td></td></td></td></td></td></td>	.0000 <td>.0250 <td>.0470 <td>.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.2520 <td>.3010 <td>.3750 <td>.4990 <td>.5700 </td></td></td></td></td></td></td></td></td></td></td></td></td>	.0250 <td>.0470 <td>.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.2520 <td>.3010 <td>.3750 <td>.4990 <td>.5700 </td></td></td></td></td></td></td></td></td></td></td></td>	.0470 <td>.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.2520 <td>.3010 <td>.3750 <td>.4990 <td>.5700 </td></td></td></td></td></td></td></td></td></td></td>	.0700 <td>.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.2520 <td>.3010 <td>.3750 <td>.4990 <td>.5700 </td></td></td></td></td></td></td></td></td></td>	.1120 <td>.1500 <td>.1670 <td>.1700 <td>.2050 <td>.2520 <td>.3010 <td>.3750 <td>.4990 <td>.5700 </td></td></td></td></td></td></td></td></td>	.1500 <td>.1670 <td>.1700 <td>.2050 <td>.2520 <td>.3010 <td>.3750 <td>.4990 <td>.5700 </td></td></td></td></td></td></td></td>	.1670 <td>.1700 <td>.2050 <td>.2520 <td>.3010 <td>.3750 <td>.4990 <td>.5700 </td></td></td></td></td></td></td>	.1700 <td>.2050 <td>.2520 <td>.3010 <td>.3750 <td>.4990 <td>.5700 </td></td></td></td></td></td>	.2050 <td>.2520 <td>.3010 <td>.3750 <td>.4990 <td>.5700 </td></td></td></td></td>	.2520 <td>.3010 <td>.3750 <td>.4990 <td>.5700 </td></td></td></td>	.3010 <td>.3750 <td>.4990 <td>.5700 </td></td></td>	.3750 <td>.4990 <td>.5700 </td></td>	.4990 <td>.5700 </td>	.5700

ARC11-716 1A14 041712-918E5 CRG. FUSELAGE (R81848)

ALPHAO (4) = 4.168 BETA0 (2) = -4.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6650	.7300	.7610	.6650	.6660	.9250	.9450	1.0020	1.0210	1.0460
PHI										
.000	.1526	.1397	.0440	-.1394	-.3721	.0000	-.3202		-.1940	-.2236
40.000	.1756	.2275	.1861	-.0703	-.3995	-.7443	-.4104		.0000	.0000
70.000	-.0948	-.2926	-.3300	.1052	-.0629	-.1390	-.1471			
90.000	-.0544	-.2274	-.1071	.0477	-.1450	-.1755	-.1666			
105.000		.1067	-.0809	-.1759	-.2416	-.2186				
110.000										-.2699
120.000	-.3207	-.1465	.1732	.1728	-.2486	-.1691	-.2104			-.2377
135.000			.4406	.1696	-.2433	-.0472	-.1603			
150.000	-.6040	.1216	.3156	.2340	-.1080	-.0598	-.2443			
160.000	.0246		.3090		.0466	-.0624	-.3261			
180.000	.0421	.1726	.3046	.3660						

ALPHAO (4) = 4.170 BETA0 (3) = .080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0250	.0470	.0700	.1120	.1560	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.3210	.6914	.1354	.0653	.0339	-.0166		-.0297		-.0060	-.0435	-.0362	-.0611	-.0368	.0618
20.000		.1609	.0847	.0509	-.0667		-.1632			.0256					
40.000		.3345	.1350	.0611	-.0719		-.2455			.0311	-.0772	-.1545	-.1307	-.0381	.1188
55.000		.4279	.2100	.1020	-.0120		-.1027			.0401					
70.000		.4664	.2373	.0931	.0396		-.0137			.0106	-.4368	-.2679	-.2319	-.1544	
90.000		.6076	.4230	.2217	.0912	.0943	-.0140			-.1107	-.4309	-.3199	-.2797	-.1355	
100.000		.4391	.2095	.1321	.2336		.2245			-.2039	-.4486	-.6471	-.2761	-.1340	
140.000		.3971	.2737	.1637	.3035					-.3075					
150.000										-.5664	-.7267	-.5277	-.2555	-.0850	
19.000										.3466					
194.000										.6905					
162.000										.4360					
169.000															
174.000															
180.000	1.3210	.6905	.3465	.2349	.2396	.3379	.6701								

ALPHAO (4) = 4.170 BETA0 (3) = .080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6780	.7300	.7610	.6230	.6620	.9250	.9450	1.0020	1.0210	1.0460
PHI										
.000	.1388	.1695	.0337	-.1805	-.3312	.0000	-.3185		-.2234	-.2479
40.000	.1216	.1473	.0460	-.0691	-.2617	-.4611	-.3356		.0000	.0000
70.000	-.0854	-.2695	-.2091	.0945	-.1099	-.1955	-.1809			
90.000	-.0485	-.2002	-.0790	-.0222	-.1645	-.1659	-.1949			
105.000		.6395	-.0943	-.1914	-.2341	-.2370				
110.000										-.3175



ALPHAO (4) = 4.170 BETAO (3) = .030

ARC11-716 1A14 OR-T12-8128G3 CRB. PURLAGE (M818-40)

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

X/L	.0000	.7500	.7010	.0020	.0020	.0020	.9630	1.0020	1.0210	1.0400
PWT										
120.000	-.0008	-.0021	.1196	.0503	-.3230	-.1000	-.2920	-.1. 47		
135.000			.3297	.2742	-.2309	-.1645	-.2334			
150.000	.0403	.1316	.3109	.3041	-.1474	-.1022	-.3096			
165.000	.0871		.3210		-.0291	-.1609	-.3446			
180.000	.0364	.1343	.3175	.4330						

ALPHAO (4) = 4.170 BETAO (4) = 4.130

SECTION (1) ORBITER PURLAGE DEPENDENT VARIABLE CP

X/L	.0000	.0000	.0020	.0470	.0700	.1120	.1390	.1670	.1700	.2020	.2320	.3010	.3790	.4990	.5700
PWT															
.000	1.2000	.0002	.1476	.0502	-.0035	-.0078		-.1393		-.0016	.0110	-.0197	-.0007	-.0035	.0108
20.000			.1810	.0476	-.0080	-.0642		-.2016		-.0323					
40.000			.2249	.0329	-.0129	-.1406		-.2775		-.0076	-.1232	-.2027	-.2105	-.0356	.0637
55.000			.2700	.0709	-.0128	-.1376		-.1970		-.0104					
70.000			.3135	.0857	-.0128	-.1110		-.1091		-.0730	-.4030	-.3548	-.3045	-.0963	
90.000	.3832		.2691	.0822	-.0463	-.0004		-.1031		-.2482	-.4914	-.4191	-.3045	-.0744	
120.000			.3433	.1310	.0404	.1212		.1106		-.3494	-.2993	-.0603	-.2306	-.0747	
140.000			.3303	.2376	.1224	.2241				-.5431	-.7037	-.5095	-.3064	-.0817	
160.000								.2429							
180.000								.5009							
190.000								.3397							
195.000								.7173							
199.000	1.2000	.0070	.3703	.2017	.2110	.3037	.0132	.7153							
174.000															
180.000	.0000	.7500	.7010	.0020	.0020	.9630	1.0020	1.0210	1.0400						

PWT

.000															
40.000	.0043	-.0003	-.0409	-.3546	-.3711	.0000	-.3013								
60.000	.0704	-.0004	-.0129	-.2242	-.3501	-.4008	-.2338								
70.000	-.0025	-.1703	-.1206	.0001	-.1374	-.2006	-.2253								
90.000	-.0112	-.0007	-.0204	.0213	-.1701	-.2242	-.2423								
105.000			.0643	-.0540	-.2223	-.2923	-.2902								
116.000															
120.000	.0005	.0042	.1402	-.0006	-.3109	-.2597	-.3175	-.3004							
135.000			.4000	.2367	-.3492	-.2833	-.3323	-.3350							
150.000	.0000	.1770	.3714	.3559	-.2197	-.3135	-.4400								
165.000	.0009		.3109		-.1091	-.3094	-.3657								
180.000	.0001	.1706	.3037	.3742											

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ARC11-716 1A14 01-118-ALINES (R81040)

ALPHAX (4) = 4.100 BETA (9) = 8.040

SECTION (1)-ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1790	.2030	.2300	.3010	.3790	.4990	.5760
PWT															
000	1.3800	.6890	.1091	.0140	-.0973	-.0907		-.2227		-.0116	-.1296	-.1049	-.1221	-.1962	-.0631
20.000								-.2779		-.0901					
40.000								-.3343		-.1110	-.1400	-.2906	-.3044	-.0631	.0165
60.000								-.2231		-.1625					
80.000								-.1744		-.2679	-.5390	-.4470	-.3494	-.0340	
100.000			.1082					-.2024		-.3248	-.6472	-.4956	-.3015	-.0132	
120.000								-.0297		-.4732	-.6833	-.8489	-.3125	-.0374	
140.000										-.6939					
160.000			.2382	.1974	.0484	.1189			.0903						
180.000								.4357							
190.000									.2342						
195.000										-.6598	-.6892	-.5308	-.4827	-.1754	
199.000								.6270							
199.000						.7275									
199.000	1.2000	.4910	.3096	.2108	.1602	.2308		.6082		-.7279	-.6540	-.5193	-.4038	-.2013	
199.000	.6990	.7820	.7010	.6270	.6620	.6230	.6430	1.0020	1.0210	1.0490					

PWT

000	.6498	-.6048	-.1044	-.4880	-.4285	.0000	-.3403		-.2440	-.2130					
20.000	.0946	.0901	-.0485	-.2825	-.3022	-.3636	-.2970		.0000	.0000					
40.000	-.0878	-.1782	-.0008	.1032	.1970	.2305	.2430								
60.000	-.0196	-.1093	.0421	.0703	-.1965	.2300	.2762								
80.000			.0992	.0097	-.2544	-.2965	-.3207								
100.000															
110.000															
120.000	.0821	.0424	.1894	-.0871	-.3891	-.2905	-.3680								
130.000			.3488	.2235	-.4310	-.4047	-.4212								
140.000	.0999	.1237	.2338	.2406	-.2482	-.3791	-.5194								
160.000	.0216	.2298													
180.000	.0884	.1192	.2250	.2873	-.1908	-.3376	-.3969								

ALPHAX (9) = 8.130 BETA (1) = -4.040

SECTION (1)-ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1790	.2030	.2300	.3010	.3790	.4990	.5760
PWT															
000	1.2000	.7904	.6270	.6190	.6039	-.0416		-.1811		.0126	-.0902	.0039	-.0370	.0040	.1032
20.000								-.3903		.0368					
40.000								-.3882		.0128	-.0212	-.0796	-.0981	.0130	.1990
60.000								-.0635		.0967					
80.000								.0476		.0322	-.3391	-.1483	-.1053	-.2229	
99.000			.6882	.5706	.3338	.1250	.0893	.0951		-.0070	-.3428	-.1697	-.1834	-.2190	



0818481

ORG. FUELAGE

ALPHAO B = 0.120 SETAO (1) = -4.040

SECTION (1) - ORBITER FUELAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1570	.1670	.1700	.2050	.2520	.3010	.3700	.4000	.5700
PWT															
100.000			.4011	.0000	.1106	.1604	.3117			-.0838	-.3002	-.9459	-.5195	-.3044	
140.000										-.1005					
150.000			.3000	.1000	.0700	.2070				-.3005	-.7050	-.6370	-.3306	-.1470	
174.000							.7002		.4455						
176.000									.4036						
182.000										-.0228	-.7197	-.3040	-.3100	-.0702	
186.000															
189.000															
174.000															
180.000	1.2000	.5702	.2370	.1602	.1211	.2102	.0301			-.7391	-.0955	-.5155	-.3004	-.0000	
Y/LB	.0000	.7000	.7010	.0000	.0000	.0000	.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	

PWT

40.000	.1700	.1025	.0004	-.1300	-.3670	.0000	-.3003			-.1044	-.2000				
70.000	-.0025	-.3071	-.1101	-.1225	-.2131	-.2003				.0000	.0000				
90.000	-.0000	-.2000	-.0407	-.1091	-.2392	-.2504									
106.000		.0107	-.0053	-.2399	-.3003	-.3010									
110.000							-.3003								
120.000	-.1000	-.2074	.1130	.1000	-.3424	-.2000	-.2031								
136.000	.2127	.2790	.0000	-.0000	-.7437	-.3027									
150.000	-.0130	.0001	.2115	.2242	-.1470	-.1170	-.3031								
160.000	.0116	.2145			-.0100	-.0000	-.3302								
180.000	.0441	.0004	.2001	.0073											

ALPHAO B = 0.120 SETAO (2) = .040

SECTION (1) - ORBITER FUELAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1570	.1670	.1700	.2050	.2520	.3010	.3700	.4000	.5700
PWT															
20.000		1.3110	.0277	.0070	.0790	.0002	-.0336			-.0100	-.0102	.0000	-.0000	.0126	.0014
40.000										.0104					
50.000			.3042	.1406	.0040	-.0000				.0544	-.0006	-.1004	-.0002	.0001	.1436
55.000			.4027	.2307	.1133	.0400				.0047					
70.000			.0000	.0402	.0007	-.0003				.0403	-.4136	-.2500	-.1015	-.1015	
90.000		.0007	.0303	.2225	.0342	-.0237				-.0230	-.4103	-.3004	-.2040	-.1000	
120.000			.0001	.1034	.0013	.1236				-.2916	-.4374	-.6367	-.3005	-.1000	
140.000										-.3740	-.7003	-.5750	-.2040	-.0070	
170.000															
171.000															
176.000															
182.000															

.6047

.4172

ARC11-716 1A14 08-712-818KES CRG. PURCHASE (R01848)

ALPHA: IN = 0.128 SIGMA (Z) = .040

SECTION (1) CORRECTOR PURCHASE DEPENDENT VARIABLE CP

1/LS	.0000	.0000	.0200	.0470	.0700	.1120	.1700	.2020	.2300	.3010	.3700	.4000	.3700
PWT													
100.000						.7572							
100.000													
174.000													
100.000	1.2410	.0000	.2792	.2100	.1395	.2370	.0200						
1/LS	.0000	.7000	.7010	.0020	.0000	.0020	.0000	1.0000	1.0010	1.0010	1.0400		

PWT													
00.000	.1000	.1340	.0820	-.1001	-.2004	.0000	-.2010						
40.000	.1975	.1775	.1100	-.0543	-.3700	.4230	-.2000						
70.000	-.1000	-.3000	-.3000	-.0704	-.1305	-.2000	-.2231						
90.000	-.0075	-.0000	-.1402	-.0000	-.2000	-.2375	-.2544						
100.000	.0000	.7000	.7010	.0020	.0000	.0020	.0000	1.0000	1.0010	1.0010	1.0400		
110.000													
120.000	-.0400	-.0075	.0404	.1000	-.3000	-.2200	-.2012						
130.000													
140.000	.0425	.0400	.3071	.2003	-.1905	-.2401	-.3000						
150.000	.0000	.3002		-.0007	-.2400	-.3077							
160.000	.0000	.0010	.3000										

ALPHA: IN = 0.128 SIGMA (Z) = 4.100

SECTION (1) CORRECTOR PURCHASE DEPENDENT VARIABLE CP

1/LS	.0000	.0000	.0200	.0470	.0700	.1120	.1700	.2020	.2300	.3010	.3700	.4000	.3700
PWT													
00.000													
20.000													
40.000													
70.000													
90.000													
100.000	1.2070	.0700	.0000	.0543	-.0000	-.0502							
110.000													
120.000													
130.000													
140.000													
150.000													
160.000													
170.000													
180.000													
190.000													
200.000													
210.000													
220.000													
230.000													
240.000													
250.000													
260.000													
270.000													
280.000													
290.000													
300.000													

PWT													
00.000													
20.000													
40.000													
70.000													
90.000													
100.000													
110.000													
120.000													
130.000													
140.000													
150.000													
160.000													
170.000													
180.000													
190.000													
200.000													
210.000													
220.000													
230.000													
240.000													
250.000													
260.000													
270.000													
280.000													
290.000													
300.000													



(001040)

CRS. PURCHASE

ALPHAOI 01 = 0.100 SETAO (3) = 4.100

SECTION (1) CRITERION PURCHASE DEPENDENT VARIABLE CP

W/L/S	0.000	.7500	.7010	.0020	.0000	.0020	.0000	1.0000	1.0010	1.0400
PHI										
000	.1107	.0707	-.0000	-.3372	-.3407	.0000	-.3105		-.1047	-.0045
00.000	.1002	.0603	.0131	-.3006	-.3001	-.3002	-.2707		.0000	.0000
00.000	-.0071	-.2543	-.0001	.0003	-.1032	-.2416	-.2716			
00.000	-.0470	-.1791	-.0713	-.0042	-.2122	-.2073	-.2042			
100.000		.0007	-.1000	-.2700	-.3000	-.3346				
110.000						-.3043				
120.000	.0402	.0123	.0077	-.0044	-.3012	-.2904	-.3500			
130.000		.0143	.0103	-.3043	-.3117	-.3032				
140.000	.0040	.0040	.0000	.3705	-.2475	-.3541	-.0001			
100.000	.0714	.3100		-.1413	-.3000	-.3000				
100.000	.0023	.0000	.2002	.0000						

ALPHAOI 01 = 0.110 SETAO (4) = 0.270

SECTION (1) CRITERION PURCHASE DEPENDENT VARIABLE CP

W/L/S	0.000	.0000	.0000	.0470	.0700	.1100	.1500	.1070	.1700	.2070	.2500	.3010	.3700	.4700	.5700
PHI															
000	1.1000	.0000	.0000	-.0270	-.1002	-.1004		-.2370	-.0471	-.0540	-.1304	-.1000	-.0010	-.0000	-.0000
00.000		-.0000	-.0402	-.1075	-.1100		-.3070	-.3070	-.1107		-.1100	-.2334	-.1000	-.0017	.0000
00.000		.0000	-.0703	-.1004	-.1000		-.2922	-.2922	-.1100	-.1703	-.2334	-.1000	-.0017	.0000	
00.000		.0000	-.0704	-.1100	-.2340		-.2955	-.2955	-.1740	-.0857	-.4001	-.3470	.0140		
70.000		.1000	-.0070	-.1200	-.2103		-.1907	-.1907	-.1740	-.0857	-.4001	-.3470	.0140		
00.000		.0000	-.0000	-.0000	-.1701	-.2440		-.1907	-.1740	-.0857	-.4001	-.3470	.0140		
100.000		.1504	-.0010	-.1177	-.1307		-.0001	-.0001	-.1740	-.0857	-.4001	-.3470	.0140		
140.000									-.0700	-.0000	-.3715	-.3302	-.0543		
130.000		.1400	.0700	-.0000	-.0000			.0700							
140.000							.6124								
100.000									.0000						
100.000	1.1000	.3700	.0010	.1111	.0044	.0017		.0000							
100.000		.0000	.7500	.7010	.0020	.0000	.0020	.0000	.0020	.0000	.0020	.0010	1.0400		

W/L/S	0.000	.0000	.7500	.7010	.0020	.0000	.0020	.0000	1.0000	1.0010	1.0400
PHI											
000	.0000	.0100	-.0000	-.4347	-.4577	.0000	-.3302		-.0004	-.1000	
00.000	.0004	.0707	-.0000	-.2002	-.2016	-.3001	-.2001		.0000	.0000	
00.000	-.1000	-.2001	.0003	.0541	-.2101	-.2777	-.2007				
00.000	-.0000	-.2001	.0002	.0000	-.2404	-.2000	-.2000				
100.000		.1001	-.0001	-.0001	-.2000	-.3405	-.3405				
110.000						-.3045					

DATE 08 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

(RB1046)

CRB. FUSELAGE

ARC11-716 1A14 01-712-S12M25

ALPHAO1 3) = 0.110 BETA0 (4) = 0.270

SECTION (1)/CRIBTER FUSELAGE	DEPENDENT VARIABLE CP									
X/LB	.6350	.7300	.7610	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PWT										
120.000	.0253	-.0554	.1655	-.0659	-.3645	-.3447	-.4039	-.3997		
135.000			.5763	.2199	-.4297	-.4033	-.4444			
150.000	.0296	-.0072	.3004	.2847	-.2556	-.4115	-.5488			
165.000	-.0192		.1799		-.2095	-.4132	-.4020			
180.000	-.0091	-.0803	.1446	.3115						

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 1A14 OL-712-SIDES

ORB. FUSELAGE

(R81849) (15 FEB 74)

REFERENCE DATA

REF = 2.4210 24.FT. WARP = 29.9600 INCHES
 LREF = 36.7090 INCHES YARP = .0000 INCHES
 SCF = 36.7090 INCHES ZARP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

MACH = 1.190 ELEVON = .000
 RUDDER = .000 SPOBRK = .000

ALPHAO (1) = -7.660 BETA0 (1) = -6.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2380	.3010	.3790	.4990	.5760
PHI															
20.000	1.2930	.6607	.2603	.2043	.1776	.0716		-.0208		-.0910	-.1159	-.1296	-.1728	-.1366	.0290
40.000			.3606	.2657	.2044	.1393		.0120		.1076					
60.000			.6038	.3466	.2644	.1966		.0696		-.0789	-.1008	-.0492	-.0492	-.0636	.0794
80.000			.7653	.2663	.4050	.3136		.1925		.0466					
100.000			.8436	.6091	.4771	.3928		.2664		.1224	-.3178	-.0653	-.0728	-.0121	
120.000	1.0760		.6992	.6946	.5078	.4496		.2667		.1506	-.2376	-.1430	-.0726	-.0095	
140.000			.8577	.6663	.5696	.5686		.5020		.1611	-.1657	-.4269	-.0621	-.0553	
160.000				.7514	.6394	.5622	.6106			.1761	-.4903	-.2713	-.1164	-.1056	
180.000								.9114		.6436					
200.000									.6672						
220.000										-.3675	-.4279	-.2734	-.1429	-.1541	
240.000															
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															

X/LB	.6630	.7500	.7610	.8230	.8620	.9230	.9630	1.0210	1.0490
PHI									
40.000	.0392	.0235	.0227	-.0162	-.6557	.0000	-.3957		-.2666
60.000	-.0136	-.0900	.0909	.1040	-.9171	-.6785	-.3739		.0000
80.000	.1046	-.0771	.2070	.3321	.1969	.2421	.1669		
100.000	.1166	.0096	.2692	.3376	.1206	.2210	.1763		
120.000			.3662	.2809	.0786	.1655	.1474		
140.000									-.1267
160.000	.0616	.0412	.4615	.3557	.1996	.1783	.1493		-.0116
180.000			.6992	.3964	.2440	.2307	.1367		
200.000	.0072	.1944	.4790	.3966	.3391	.2990	.0016		
220.000	-.0237		.4632		.4329	.3096	-.1102		
240.000	-.0656	.2465	.4603	.5771					

ORIGINAL PAGE
 OF POOR QUALITY

ARC11-716 1A14 OR-T12+SIZES CRG. FUSELAGE (RR1849)

ALPHAX (1) = -7.000 BETA (2) = -4.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1070	.1780	.2050	.2320	.3010	.3790	.4990	.9780
PHI															
.000	1.3310	.7130	.3445	.2264	.1999	.0157		.1071		-.0646	.0443	-.0873	-.1300	-.0909	.0162
20.000			.3879	.2632	.2193	.0367		.0069		-.0232					
40.000			.5369	.3084	.2349	.1099		.0664		-.1676	-.1301	-.0794	-.1300	-.1470	.0167
60.000			.6513	.4203	.3095	.1960		.1216		.0149					
80.000			.7150	.4867	.3473	.2613		.1710		.0384	-.3670	-.1764	-.1302	-.0594	
90.000		.9277	.7366	.5234	.3630	.3199		.1780		.0360	-.3056	-.3006	-.1210	-.0806	
120.000			.7734	.5963	.3036	.5143		.3959		.0219	-.2409	-.3020	-.1137	-.0646	
140.000										.0078					
150.000			.7338	.6239	.5610	.3666			.3693	-.2124	-.4609	-.2727	-.1523	-.0962	
151.000								.8543							
156.000									.6366						
162.000										-.3646	-.3444	-.2953	-.1702	-.1101	
165.000															
169.000															
174.000						1.0160		.9191							
180.000	1.3910	.9400	.6796	.5990	.5606	.3696		.6285		-.3033	-.3623	-.1699	-.1922	-.1124	
X/LB	.6930	.7300	.7610	.8230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

PHI

.000	.0419	-.0052	-.0477	-.0191	-.4237	.0000	-.3990			-.2541	-.2668				
40.000		.0292	-.0395	-.0076	.0017	-.5312	-.7093	-.4620		.0000	.0000				
70.000		.0809	-.1072	.2466	.3027	.1236	.1763	.1325							
90.000		.1055	.1640	.3006	.2936	.0914	.1576	.1140							
105.000			.3667	.2429	.0960	.0968	.0870								
110.000								-.1480							
120.000	.1057	.2939	.4179	.2996	.0776	.1053	.0564	-.0315							
135.000			.7240	.4468	.1866	.1770	.0466								
150.000	.0464	.3609	.2647	.5195	.2184	.2176	-.0655								
165.000	.0105		.5530		.3088	.2350	-.1626								
180.000	-.0603	.3546	.5923	.6979											

ALPHAX (1) = -7.000 BETA (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.9780
PHI															
.000	1.3460	.7155	.3376	.2356	.1769	.1111		.0203		.0145	-.0633	-.1797	-.2783	-.1084	.0297
20.000			.3635	.2480	.1787	.0744		-.1939		-.0606					
40.000			.4954	.2669	.1740	.0750		-.1427		-.1544	-.2117	-.1498	-.1435	-.1963	.0372
60.000			.5314	.3196	.2100	.1299		-.0057		-.0462					
70.000			.5616	.3562	.2303	.1966		-.0833		-.1128	-.4574	-.2834	-.1923	-.0956	
90.000		.7514	.6032	.3969	.2612	.2186		.0697		-.1137	-.4162	-.4166	-.1669	-.0993	



MRC11-716 1A14 CH-T12-312H2S CRB. PURCHASE (M81849)

ALPHA(1) = -7.870 BETA(4) = 4.100

SECTION (1) CRIBBITER PURCHASE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI								.8316							
160.000															
140.000															
174.070															
160.000	1.3340	.8039	.6835	.6104	.5383	.4916	.9592	.6955							
X/LB	.6270	.7900	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

ALPHA(1) = -7.880 BETA(5) = 8.200

SECTION (1) CRIBBITER PURCHASE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
40.000															
70.000															
90.000															
105.000															
110.000															
135.000															
190.000															
165.000															
160.000															

ALPHA(1) = -7.880 BETA(5) = 8.200

SECTION (1) CRIBBITER PURCHASE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
90.000															
120.000															
140.000															
190.000															
191.000															
162.000															
160.000															
140.000															
174.000															
160.000															



ARC11-716 1A14 01-712-S12M25 ORG. FUSELAGE (R01049)

ALPHAO(1) = -7.090 BETA(5) = 0.200

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6000	.7000	.7610	.8230	.8620	.9250	.9630	1.0020	1.0210	1.0480
PHI										
0.000	-1.1214	-1.1447	-1.1732	-1.4996	-3.8686	0.0000	0.0000	-3.6600	-2.2604	-2.7441
40.000	-0.0998	-1.0221	-1.1765	-3.1229	-2.7500	-3.716	-3.6300		0.0000	0.0000
70.000	0.0868	1.0118	1.2227	2.4033	-0.0779	-1.104	-1.1163			
90.000	0.0234	1.4463	1.1219	1.9309	-1.1446	-1.203	-1.3666			
105.000			0.2110	0.9375	-1.1562	-1.489	-1.9595			
110.000										
120.000	0.0887	2.2885	-0.0516	-2.9312	-3.909	-2.415	-3.079	-3.3131		
135.000			-0.4616	1.2271	-4.414	-4.810	-3.231	-3.8639		
150.000	-0.0487	2.706	0.5776	0.6444	-1.260	-2.495	-3.973			
165.000	-0.0705		0.2228		-0.0130	-1.960	-3.774			
180.000	-0.0993	2.496	0.4785	0.6093						

ALPHAO(2) = -3.930 BETA(1) = -0.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0250	.0410	.0700	.1120	.1990	.1670	.1700	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
0.000	1.2020	0.7242	3.161	1.696	0.084	0.043		-0.4895	-0.0575	-1.092	-1.996	-1.193	-1.1063	-1.063	0.0990
20.000			0.005	0.2301	1.916	1.149		0.0221	0.1156	0.0169	-0.0428	-0.0293	-0.0356	-0.0774	1.474
40.000			0.0263	3.265	2.249	1.765		0.0703	0.0990	0.0990					
55.000			0.7691	0.9999	3.718	3.003		0.1932	0.0990	0.0990					
70.000			0.224	2.654	4.244	3.991		2.658	1.287	2.689	-0.0650	-1.076	-0.776		
90.000	1.0400		0.130	3.651	4.244	3.969		2.640	1.571	2.369	-1.448	-1.399	-0.668		
120.000			0.724	2.682	3.017	5.163		4.854	1.330	1.606	-4.441	-1.742	-1.428		
140.000									0.0976						
150.000			0.091	2.236	4.996	5.267			0.0759	-5.409	-4.068	-2.024	-1.863		
154.000								0.6134							
196.000								0.843	0.6477						
182.000										-0.4054	-4.835	-3.923	-2.2182	-2.9553	
185.000															
188.000															
174.000						0.9669									
180.000	1.2660	0.8156	0.9220	4.956	4.909	4.906									
X/LB	.6590	.7500	.7610	.8230	.8620	.9250	.9630	1.0020	1.0210	1.0480					
PHI															
0.000	0.0913	1.100	0.0790	-0.0322	-0.5652	0.0000	-0.3716								
40.000	0.0982	1.489	0.2226	1.466	-0.9199	-0.6004	-0.5634								
70.000	0.0230	-1.217	-1.810	2.575	0.654	1.256	1.973								
90.000	0.4003	-0.0907	0.991	2.934	0.236	0.785	1.922								
104.000			2.458	1.700	-0.0081	0.948	1.193								
116.000															

(R81849)

ORB. FURDLAGE

ARC11-716 1A14 ORBITER-SIDES

ALPHAOX (2) = -3.930 BETAO (1) = -8.100

SECTION (1) ORBITER FURDLAGE DEPENDENT VARIABLE CP

K/LB	.6930	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460
PHI										
120.000	-0.0728	-0.0906	.3005	.3261	-.0319	.0901	.0841	-.0110		
135.000										
150.000	-0.0974	.0072	.3934	.3090	.2624	.2499	-.0473			
165.000	-0.0904		.3985		.3680	.2473	-.1365			
180.000	-0.0716	.1831	.4166	.4873						

ALPHAOX (2) = -3.860 BETAO (2) = -4.120

SECTION (1) ORBITER FURDLAGE DEPENDENT VARIABLE CP

K/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1790	.2050	.2320	.3010	.3790	.4990	.5700
PHI															
20.000	1.3370	.7473	.3182	.1315	.1487	-.0299		-.0682		-.1064	.0229	-.1017	-.1514	-.1177	.0188
40.000										.0272					
60.000										-.1803	-.1191	-.0744	-.1223	-.1382	.0700
80.000										.0161					
100.000										.0385	-.3931	-.1820	-.1829	-.1114	
120.000										.0445	-.3307	-.2496	-.1831	-.1009	
140.000										.0040	-.2652	-.5270	-.1833	-.1390	
160.000										-.0460					
180.000										-.3035	-.5479	-.3791	-.1956	-.1652	
191.000										.5953					
196.000										.6246					
182.000										.6620					
169.000															
174.000															
150.000	1.3370	.8308	.5572	.4618	.4469	.4962	.9749			-.4154	-.4393	-.3900	-.2244	-.1533	
120.000	.6930	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460					

SECTION (1) ORBITER FURDLAGE DEPENDENT VARIABLE CP

K/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1790	.2050	.2320	.3010	.3790	.4990	.5700
PHI															
40.000	.0886	.0537	.0071	-.0684	-.3673	.0000	-.3252			-.2169	-.2360				
60.000	.0427	.0779	.1168	.0505	-.5324	-.6899	-.3969			.0000	.0000				
80.000	.0389	-.0977	.0792	.2468	.0458	.1008	.1173								
100.000	.0462	-.0346	.1341	.2331	.0055	.0675	.0996								
120.000															
140.000															
160.000															
180.000	.0234	.0307	.3578	.2346	-.0810	.0630	-.0119	-.0386							
191.000															
196.000	.0411	.2157	.4797	.4203	.1077	.1620	-.1045								
182.000	.0271	.4529	.2327	.1693	-.2062										
169.000	.0134	.2348	.4807	.9296											



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(R01849)

ORG. FUEL/LANE

ARC11-716 1A14 01-712-512MS

ALPHAX 2) = -3.000 BETAO (3) = .030

SECTION (1) ORBITER FUEL/LANE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5790	
PHI																
.000	1.34610	.7555	.2828	.1065	.1025	.0578		-.0101		.0096	-.0640	-.1600	-.2076	-.1407	.0226	
20.000		.3204	.1836	.1043	.0214			-.2163		-.0482		-.1522	-.1987	-.1409	-.1341	.0693
40.000		.4279	.2229	.1029	.0442			-.1530				-.0369				
60.000		.5034	.2791	.1367	.1126			.0133								
70.000		.5465	.3099	.1364	.1674			.1047								
90.000		.7131	.5429	.3472	.1904			.0755								
120.000		.5978	.3960	.3148	.3790			.2715								
140.000		.5911	.4943	.4086	.4643				.4410							
150.000								.7384								
194.000									.5244							
162.000																
169.000																
169.000																
174.000																
180.000																
180.000																
180.000																

ALPHAX 2) = -3.000 BETAO (4) = 4.000

SECTION (1) ORBITER FUEL/LANE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5790
PHI															
.000	.0777	.0411	-.0305	-.1170	-.3169	.0000	-.3298			-.2426	-.2337				
40.000	.0487	.0227	.0128	-.0635	-.2273	-.4296	-.4120			.0000	.0000				
70.000	.0713	.0530	.1360	.2200	.0126	-.0024	-.0162								
90.000	.0866	.1013	.1870	.1940	-.0216	-.0316	-.0436								
105.000		.2763	.1217	-.0595	-.0752	-.0647									
110.000															
120.000	.0823	.2293	.2402	.1215	-.1356	-.0426	-.1040								
135.000		.0179	.3694	-.1372	-.0226	-.0911									
150.000	.0763	.3164	.5457	.5803	-.0065	-.0263	-.1645								
169.000	.0096	.5161		.1122	-.0236	-.2656									
180.000	-.0098	.3274	.5090	.5944											

ALPHAX 2) = -3.000 BETAO (4) = 4.000

SECTION (1) ORBITER FUEL/LANE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5790
PHI															
.000	1.33610	.6969	.2398	.1595	.0968	.1051		-.0228		-.0017	-.1326	-.2222	-.2370	-.1190	-.0283
20.000		.2408	.1345	.0964	.0548			-.0644		-.0644					
40.000		.2990	.1527	.0757	.0211			-.1751		-.1415	-.0935	-.1645	-.2164	-.1227	-.0011
60.000		.3960	.1635	.0792	.0324			-.0599		-.0977					
70.000		.3990	.1769	.0710	.0278			-.0034		-.1768	-.2804	-.3315	-.2301	-.1062	
70.000		.3990	.1769	.0710	.0278			-.0387		-.1901	-.3307	-.4793	-.2213	-.1060	

ARC11-718 IAI14 OLV12-S12MS ORB. PUSBLAGE (R18148)

ALPHAO1 Z1 = -3.000 BETA0 (4) = 4.000

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2350	.3010	.3790	.4990	.5760
PHI															
120.000			.4766	.2650	.1068	.2414	.1530			-.2065	-.4061	-.6679	-.2342	-.1365	
140.000										-.4765					
150.000			.5161	.4248	.3379	.3912				-.4569	-.5413	-.3206	-.3206	-.1369	
171.000									.3149						
194.000									.6266						
162.000															
169.000															
169.000															
174.000															
160.000			1.2040	.6047	.9827	.4908	.4414	.3000	.9109						
X/LB	.6030	.7900	.7910	.6230	.6620	.9250	.9430	1.0220	1.0210	1.0460					

PHI

40.000	.0082	-.0029	-.0886	-.3546	-.3453	.0000	-.3266								
70.000	-.0213	-.0279	-.0946	-.2473	-.3079	-.3906	-.3460								
90.000	.0019	.0437	.1054	.1947	.0100	-.0312	-.0630								
104.000	.0043	.0990	.1911	.1692	-.0342	-.0606	-.0976								
110.000			.2027	.0664	-.0831	-.0997	-.1136								
120.000	.0391	.1945	.0830	-.0333	-.2197	-.0885	-.1724								
139.000			.9190	.9193	-.2709	-.2107	-.1931								
150.000	.0089	.2753	.5087	.5993	-.0832	-.1632	-.3181								
165.000	-.0035		.4621		.0293	-.1494	-.3428								
190.000	-.0027	.2614	.4660	.5516											

ALPHAO1 Z1 = -3.000 BETA0 (5) = 6.100

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2350	.3010	.3790	.4990	.5760
PHI															
20.000	1.2000	.6260	.1633	.1145	.0716	.0616									
40.000			.1392	.0806	.0636	.0200									
55.000			.1546	.0564	.0424	-.0216									
70.000			.2087	.0471	.0319	-.0118									
90.000			.2399	.0477	.0105	-.0052									
90.000		.2662	.2853	.0797	-.0370	-.0181									
120.000			.3461	.1631	.0721	.1420									
140.000															
150.000			.4036	.3965	.2709	.3076									
171.000															
194.000															
162.000															



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ARC11-716 1A14 Q1-T1B-SIDES CRG. FUELRAGE (081848)

ALPHAO (3) = -3.000 BETA0 (3) = 0.100

SECTION (1) ORBITER FUELRAGE DEPOSIT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1100	.1300	.1670	.1760	.2000	.2000	.3010	.3700	.4000	.3700
PHI															
100.000								.7226							
100.000															
174.700						.6365									
100.000	1.2000	.7237	.0000	.4400	.4000	.4000		.7279							
W/LB	.0000	.7500	.7010	.0000	.0000	.0000	.0000	1.0000	1.0000	1.0000	1.0400				

ALPHAO (3) = -3.000 BETA0 (3) = 0.100

SECTION (1) ORBITER FUELRAGE DEPOSIT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1100	.1300	.1670	.1760	.1760	.2000	.2000	.3010	.3700	.4000	.3700
PHI																
100.000																
100.000																
174.700																
100.000	1.2000	.7237	.0000	.4400	.4000	.4000		.7279								
W/LB	.0000	.7500	.7010	.0000	.0000	.0000	.0000	1.0000	1.0000	1.0000	1.0400					

ALPHAO (3) = -3.000 BETA0 (3) = 0.100

SECTION (1) ORBITER FUELRAGE DEPOSIT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1100	.1300	.1670	.1760	.1760	.2000	.2000	.3010	.3700	.4000	.3700
PHI																
100.000																
100.000																
174.700																
100.000	1.2000	.7237	.0000	.4400	.4000	.4000		.7279								
W/LB	.0000	.7500	.7010	.0000	.0000	.0000	.0000	1.0000	1.0000	1.0000	1.0400					

ALPHAO (3) = -3.000 BETA0 (3) = 0.100

SECTION (1) ORBITER FUELRAGE DEPOSIT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1100	.1300	.1670	.1760	.1760	.2000	.2000	.3010	.3700	.4000	.3700
PHI																
100.000																
100.000																
174.700																
100.000	1.2000	.7237	.0000	.4400	.4000	.4000		.7279								
W/LB	.0000	.7500	.7010	.0000	.0000	.0000	.0000	1.0000	1.0000	1.0000	1.0400					

ORIGINAL PAGE IS OF POOR QUALITY

ALPHAO (3) = -.318 BETAO (1) = -8.100

ARC11-716 1A14 01-712-812MS

CRS. PURCHASE

8801840

SECTION (1) ORBITER FUELAGE

DEPENDENT VARIABLE CP

W/LB	.6000	.7000	.7010	.8200	.8600	.9600	1.0000	1.0210	1.0400
PWT									
.000	.1801	.1683	.1000	-.0065	-.0213	.0000		-.1949	-.2108
40.000	.1776	.2796	.2768	.1700	-.0904	-.7030		.0000	.0000
70.000	-.0823	-.2210	-.2063	.1000	.0148	.0032			
90.000	-.0160	-.1536	-.1522	.1575	-.0311	-.0633			
100.000		.1439	.0887	-.0589	-.1251	-.0170			
110.000									
120.000	-.1672	-.1675	.2205	.3240	-.1171	.0038			
130.000			.4090	.1970	-.0813	.1239			
140.000	-.0480	-.0644	.3025	.1939	.1664	.1960			
160.000	-.0408		.3132		.2706	.1839			
180.000	-.0208	.0934	.3099	.3060					

ALPHAO (3) = -.308 BETAO (2) = -4.050

SECTION (1) ORBITER FUELAGE

DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0000	.0470	.0700	.1120	.1980	.1870	.1760	.2030	.2320	.3010	.3790	.4000	.3760
PWT																
.000	1.3400	.7704	.2902	.0831	.0778	-.0021			-.2408		-.1838	.0556	-.0529	-.0034	-.1327	.0413
20.000		.3629	.1473	.0778	-.0236				-.2423		.0493					
40.000		.2425	.2296	.1204	.0237				-.1901		-.1361	.0168	-.0570	-.0611	-.1024	.0875
60.000		.0384	.3487	.1984	.1326				.0366		.0691					
70.000			.0883	.3808	.2272	.1915			.1276		.0467	-.3768	-.1479	-.1845	-.1325	
90.000		.0911	.0440	.4032	.2143	.2264			.1464		.0071	-.3267	-.2241	-.2132	-.1264	
120.000		.0148	.3929	.2967	.3084				.3679		-.0279	-.2716	-.5300	-.2398	-.1799	
140.000			.2174	.4007	.3208	.4108					-.0460					
160.000											-.3495	-.6043	-.4212	-.2283	-.1341	
180.000									.9116							
190.000									.8013							
194.000																
162.000																
169.000																
174.000																
180.000	1.3400	.7412	.4530	.3901	.3307	.4131										

SECTION (1) ORBITER FUELAGE

DEPENDENT VARIABLE CP

W/LB	.6000	.7000	.7010	.8200	.8600	.9600	1.0000	1.0210	1.0400
PWT									
.000	.1806	.1285	.0664	-.0043	-.3482	.0000		-.1944	-.2105
40.000	.1313	.2027	.2037	.1040	-.3079	-.6829		.0000	.0000
70.000	-.0222	-.1392	-.1945	.2004	.0069	-.0136			
90.000	.0145	-.0840	.0168	.1721	-.0418	-.0534			
100.000		.1091	.0872	-.0841	-.0822	-.0444			
110.000									



001849)

CRS. PUSLAGE

ARC11-716 1A14 CR-T18-318MS

ALPHAO 3) = -.300 BETAO (2) = -4.000

SECTION (1) CRITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.7000	.7010	.0020	.0000	.0020	.0020	.0020	.0020	.0020	.0020	.0020	1.0010	1.0000	1.0000
PWT															
120.000	-.0016	-.0002	.0041	.0020	-.1000	-.0000	-.0007	-.1170							
135.000	.0025	.0000	.0000	.0000	.0000	.0000	.0000	.0000							
150.000	.0007	.0000	.0000	.0000	.0000	.0000	.0000	.0000							
165.000	.0007	.0000	.0000	.0000	.0000	.0000	.0000	.0000							
180.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000							

ALPHAO 3) = -.340 BETAO (2) = .000

SECTION (1) CRITER PUSLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0020	.0470	.0700	.1100	.1900	.1070	.1700	.0000	.0000	.0000	.0000	.0000
PWT															
.000	1.0000	.7000	.0000	.0000	.0000	.0000	.0000	.0000	-.1300	-.0795	-.0315	-.1092	-.1752	-.1210	.0400
20.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	-.2042	-.1026	-.0377	-.1364	-.1754	-.1000	.1070
40.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	-.2213	-.1026	-.0377	-.1364	-.1754	-.1000	.1070
60.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	-.0270	-.1202	-.0377	-.1364	-.1754	-.1000	.1070
80.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	-.0442	-.1313	-.0377	-.1364	-.1754	-.1000	.1070
100.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0100	-.0919	-.0377	-.1364	-.1754	-.1000	.1070
120.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	-.1700	-.0377	-.1364	-.1754	-.1000	.1070
140.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	-.0700	-.0377	-.1364	-.1754	-.1000	.1070
160.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	-.0377	-.1364	-.1754	-.1000	.1070
180.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	-.0377	-.1364	-.1000	.1070

.4213

.4001

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ALPHACI 20 = -.340 BETA0 (4) = 4.108

ARC11-716 1A14 CH-712-6128165 CRD. PURCHASE (801840)

SECTION (1) CRIBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1500	.1670	.1700	.2050	.2320	.3010	.3700	.4000	.5700
PHI															
80.000	1.3000	.7175	.0001	.0076	.0548	.0093		-.0024	.0094	-.0008	-.1997	.0000	.0000	-.1171	-.0100
85.000		.2152	.0004	.0591	.0024		-.2593		-.0479						
90.000		.0014	.0037	.0403	-.0402		-.2430		-.1000	-.0753	-.1044	-.2032	-.0790	.0370	
95.000		.3332	.1000	.0400	-.0400		-.0014		-.0774						
100.000		.3725	.1304	.0430	-.0014		-.0093		-.1039	-.3010	-.3107	-.2474	-.1254		
105.000		.4013	.1475	.1730	.0395	-.0305	-.0703		-.1000	-.5424	-.4322	-.2279	-.1076		
110.000		.4255	.2237	.1357	.1074		.1406		-.2945	-.0233	-.0070	-.2140	-.1002		
115.000									-.4044						
120.000		.4395	.3341	.2590	.5199			.3016	-.3590	-.5064	-.4000	-.3307	-.1074		
125.000								.0096							
130.000									.4064						
140.000								.7737		-.4707	-.0030	-.3403	-.3207	-.1002	
145.000															
150.000															
155.000															
160.000															
165.000															
170.000															
175.000															
180.000															

SECTION (2) CRIBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1500	.1670	.1700	.2050	.2320	.3010	.3700	.4000	.5700
PHI															
80.000	.0711	.0000	-.0000	-.3004	-.3040	.0000	-.3030		-.1900	-.2016					
85.000	.0002	.0002	-.0000	-.1071	-.3555	-.3197			.0000	.0000					
90.000	-.0401	-.1120	-.0000	.1291	-.0740	-.1175	-.1157								
95.000	.0000	-.0000	.0491	.0026	-.1121	-.1453	-.1491								
100.000		.1300	-.0112	-.1574	-.1793	-.1743									
110.000															
120.000	.0002	.1300	.1000	-.0403	-.2910	-.1750	-.2325								
125.000			.4591	.3121	-.3000	-.2470									
130.000	.0000	.2044	.4225	.4507	-.1250	-.2100	-.3407								
140.000	.0410		.4003		-.0003	-.1946	-.3435								
150.000	.0047	.0007	.3000	.4019											

ALPHACI 31 = -.340 BETA0 (3) = 0.170

SECTION (3) CRIBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1500	.1670	.1700	.2050	.2320	.3010	.3700	.4000	.5700
PHI															
80.000	1.2700	.0007	.1370	.0127	.0211	.0100		-.0704	-.0202	-.1010	-.2570	-.2005	-.1124	-.0743	
85.000		.1110	.0002	.0213	-.0250		-.1305		-.1141						
90.000		.1275	.0001	.0000	-.0734		-.1035		-.1501	-.1151	-.2005	-.3390	-.1300	-.0342	
95.000		.1701	-.0134	-.0000	-.0017		-.1274		-.1241						
100.000		.2270	-.0040	-.0331	-.1134		-.1157		-.1901	-.3310	-.4316	-.3100	-.0935		
105.000		.2001	.2470	.0342	-.0740	-.0007	-.1275		-.2003	-.3046	-.3056	-.2770	-.0002		



MRC11-716 1A14 ORBITER PUSBLAGE CRB. FUSELAGE (R01849)

ALPHAO(4) = 4.130 BETA(1) = -0.060

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1673	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI								.6335							
162.000															
166.000															
174.000															
180.000	1.2360	.6190	.2999	.2316	.1845	.2089	.6353	.6217							
W/LB	.6530	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

PHI															
40.000	.2031	.1962	.1175	-.0645	-.6231	.0000	-.3369								
70.000	-.0442	-.2090	-.3268	-.0197	-.0365	-.0877	-.0964								
105.000	-.0321	-.2210	-.2861	.0468	-.0760	-.1307	-.1370								
110.000			.0131	-.0017	-.1063	-.2044	-.1995								
120.000	-.3366	-.2567	.1326	.2751	-.2327	-.1612	-.1306								
135.000			.2736	.0917	-.3204	.0416	-.0513								
150.000	-.0522	-.0716	.2197	.0672	.0317	.1129	-.1419								
165.000	-.0192		.2136		.1603	.1166	-.1851								
180.000	.0126	.0068	.2132	.2614											

ALPHAO(4) = 4.010 BETA(2) = -4.010

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000	.6203	.6056	.3628	.1646	.1549	.1302	.1302								
120.000			.5391	.3061	.1974	.2606	.3491								
140.000			.4126	.2508	.1962	.2966									
150.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.3260	.6474	.3447	.2711	.2120	.3037	.6990								
W/LB	.6530	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					

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(R01849)

ORB. FUSELAGE

ARC11-716 1A14 ORBITER/SIENES

ALPHAO(4) = 4.010 BETA0 (2) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1811	.1882	.0917	-.0864	-.3567	.0000	-.2568		-.1637	-.1863
40.000	.2055	.2706	.2398	.1249	-.5104	-.0914	-.4193		.0000	.0000
70.000	.0074	-.2097	-.2790	.1132	-.0309	-.0830	-.0936			
90.000	.0373	-.1328	-.1193	.0721	-.0898	-.1169	-.1085			
105.000		.1316	-.0059	-.1163	-.1613	-.1634				
110.000										-.2411
120.000	-.0341	-.1078	.2284	.2269	-.2296	-.1093	-.1446			-.1786
135.000			.4364	.2192	-.1896	-.0110	-.0951			
150.000	.0471	.0844	.3128	2477	-.0313	.0030	-.1932			
165.000	.0826		.3139	.1031	.0014	-.2686				
180.000	.0881	.1987	.3106	.3601						

ALPHAO(4) = 4.000 BETA0 (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0020	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5780
PHI															
.000	1.3480	.7754	.2182	.0555	.0448	-.0170		-.1792		-.2511	-.0200	-.0317	-.0604	-.0278	.0804
20.000		.2653	.0624	.0662	-.0303			-.3423		-.2770					
40.000		.4003	.1473	.0646	-.0501			-.2783		-.2696	-.0286	-.1128	-.1251	-.0803	.1364
55.000		.4722	.2230	.1177	.0069			-.0630		-.2047					
70.000		.4940	.2450	.1111	.0368			-.0713		-.1501	-.4548	-.2306	-.1962	-.1806	
90.000	.6247	.4736	.2446	.0713	.0199			-.0151		-.1011	-.4920	-.2749	-.2516	-.1731	
120.000		.4616	.2442	.1330	.2129			.2379		-.2680					
140.000										-.5092	-.6739	-.3233	-.2766	-.0929	
150.000		.4021	.2787	.1664	.2879			.4023							
151.000					.7097										
156.000															
162.000															
168.000															
174.000															
180.000	1.3480	.6438	.3687	.2908	.2221	.3191	.6685			-.5212	-.3686	-.4333	-.3570	-.0612	

.4023

.4701

.7097

.6079

.6685

.7739

1.0020

1.0210

1.0480

-.1901

.0000

.0000

-.2100

.0000

.0000

-.2896

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(R61849)

ORB. FUELAGE

ALPHAO(4) = 4.000 BETAO (3) = .040

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	.0725	.0399	.1707	.1160	-.2957	-.1601	-.2107	-.2088		
135.000		.4217	.2984	-.2291	-.1538	-.1962				
150.000	.1276	.1754	.3680	.3364	-.1175	-.1536	-.2926			
165.000	.1368		.3510	.0048	-.1542	-.5033				
180.000	.1477	.1917	.3479	.4440						

ALPHAO(4) = 4.000 BETAO (4) = 4.110

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2030	.2380	.3010	.3790	.4990	.5780
PHI															
.000	1.3170	.7122	.1584	.0828	.0284	.0357		-.1200		-.0691	-.0035	.0274	-.0672	-.0451	.0345
20.000		.1761	.0771	.0268	-.0399			-.3303		-.2121					
40.000		.2985	.0834	.0290	-.1126			-.3406		-.1622	-.0908	-.1417	-.1657	-.0361	.0786
55.000		.3094	.0940	.0250	-.1181			-.1542		-.1665					
70.000		.3400	.1014	.0178	-.0990			-.0848		-.2230	-.3600	-.2906	-.2919	-.1399	
90.000		.4030	.2925	.1119	-.0261	-.1231		-.0731		-.2028	-.5630	-.3168	-.2616	-.1072	
120.000		.3605	.1393	.0675	.1030			.1947		-.2984	-.5470	-.7343	-.2393	-.0914	
140.000										-.4849					
150.000		.3546	.2497	.1284	.2144				.2827	-.5726	-.6950	-.4753	-.2658	-.0812	
151.000									.9974						
156.000									.3790						
162.000										-.5290	-.6744	-.4362	-.3616	-.0790	
165.000									.7498						
169.000						.0365									
174.000									.7465						
180.000	1.3170	.6059	.3930	.2923	.2103	.2086				-.6548	-.5813	-.4492	-.3278	-.0797	

X/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1099	.0993	-.0127	-.3055	-.3361	.0000	-.2620		-.1094	-.1730
40.000	.0965	.0993	.0176	-.1788	-.3334	-.3700	-.2812		.0000	.0000
70.000	-.0468	-.1910	-.1616	.0877	-.1124	-.1704	-.1725			
90.000	-.0049	-.1170	-.0291	-.0042	-.1478	-.1831	-.1986			
105.000			.0673	-.0705	-.1907	-.2189	-.2441			
110.000										
120.000	.0514	.0592	.1995	-.0248	-.3348	-.2239	-.2708		-.3218	
135.000			.4182	.2764	-.3144	-.2882	-.2966			
150.000	.0721	.1665	.3995	.3642	-.1651	-.2645	-.4017			
165.000	.0721		.3190		-.0638	-.2326	-.3905			
180.000	.0728	.1592	.3184	.3023						



MR1849

ORB. FUELAGE

ALPHA(4) = 4.030 BETA(5) = 8.210

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2310	.6502	.1058	.0126	-.0259	-.0194		-.2123		-.0109	-.0612	-.0430	-.0496	-.1729	-.0484
20.000		.0556	.0254	-.0255	-.0406			-.2541		-.0833					
40.000		.0602	.0251	-.0296	-.1153			-.3301		-.1942	-.1124	-.2373	-.2761	-.0631	.0217
55.000		.1375	-.0062	-.0410	-.1653			-.1969		-.1691					
70.000		.1963	-.0210	-.0531	-.1505			-.1332		-.2754	-.5570	-.4001	-.3221	-.0776	
90.000	.1362	.1564	.0059	-.0603	-.1794			-.1461		-.2747	-.6343	-.4566	-.2674	-.0347	
120.000		.2417	.0596	-.0304	.0269			.0245		-.4033	-.6246	-.7665	-.3016	-.0613	
140.000										-.6035					
150.000		.2647	.1907	.0633	.1372			.1296		-.6139	-.7002	-.4845	-.4657	-.1346	
151.000								.4632							
156.000								.2645							
162.000								.6632							
169.000															
174.000							.7697	.6477							
180.000	1.2310	.9155	.3322	.2575	.1815	.2615				-.6549	-.6037	-.5094	-.3607	-.2060	

X/LB .6550 .7500 .7610 .6250 .6620 .9250 .9650 1.0020 1.0210 1.0460

PHI

.000	.0325	.0171	-.0764	-.6206	-.3596	.0000	-.3079			-.2135	-.1779				
40.000	.0474	.0467	-.0301	-.2240	-.2776	-.3475	-.2976		.0000	.0000	.0000				
70.000	-.0301	-.1603	-.1531	.0667	-.1428	-.2361	-.2533								
90.000	.0087	-.0951	-.0532	.0333	-.1650	-.2371	-.2936								
105.000			.0462	-.0571	-.2506	-.3014	-.3226								
110.000															
120.000	.0375	.0397	.1958	-.1034	-.3431	-.2679	-.3423								
135.000			.3240	.2163	-.4175	-.4365	-.4126								
150.000	.0420	.1194	.2169	.2317	-.2204	-.3602	-.4872								
165.000	.0322		.2129		-.1617	-.3292	-.3536								
180.000	.0175	.1017	.2145	.2609											

ALPHA(5) = 8.040 BETA(1) = -8.090

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2050	.7699	.2759	.0109	-.0786	-.0729		-.2763		-.2162	.0096	.0479	-.0170	.0350	.1417
20.000		.4250	.1757	.0240	-.1167			-.3617		-.1166					
40.000		.7183	.5684	.1907	-.0242			-.2305		-.0877	.0097	-.0050	-.0170	.0400	.2606
55.000		.8303	.5432	.3511	.1355			.0322		.1556					
70.000		.7998	.5366	.3343	.1667			.1177		.1440	-.2433	-.0369	-.0166	-.1177	
90.000	.9394	.7056	.4668	.2766	.1932			.1702		.1362	-.2506	-.0910	-.0686	-.1419	

ARC11-716 1A14 OI-T118-S12165 CR8. FUELAGE (R81849)

ALPHAO (1) = 0.040 BETAO (1) = -0.090

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5780
PHI															
120.000		.5340	.2796	.1596	.1466			.3668		.0700	-.2357	-.4567	-.4966	-.3723	
140.000										.0075					
150.000		.3126	.1630	.0761	.1134					-.0949	-.7063	-.6162	-.4279	-.3760	
151.070								.5416							
196.000								.7966							
162.000									.9312						
169.000										-.6010	-.6519	-.6231	-.4141	-.2157	
174.000								.8049							
180.000	1.2020	.5602	.1928	.1308	.0746	.1201	.7882	.3779		-.6701	-.6641	-.5370	-.4066	-.1315	
X/LB	.6630	.7900	.7610	.8230	.6620	.9230	.9630	1.0020	1.0210	1.0490					

PHI	.000	.2107	.1836	.1054	-.0667	-.5421	.0000	-.3042
40.000		.2629	.3111	.2642	.1227	-.2011	-.7210	-.2210
70.000		-.0906	-.4104	-.2116	-.0969	-.1547	-.1551	
90.000		-.0876	-.2899	-.3246	-.0396	-.1697	-.1742	
105.000			-.1161	-.0434	-.2468	-.2632	-.2831	
110.000							-.2363	
120.000	-.5741	-.3997	.0394	.2760	-.2811	-.3115	-.2214	-.1706
134.000			.1274	-.0092	-.4113	-.0905	-.1495	
150.000	-.0850	-.0615	.1197	.0629	-.0613	-.0112	-.2429	
166.000	-.0482		.1225		.0065	.0343	-.2286	
180.000	-.0175	-.0364	.1217	.2666				

ALPHAO (2) = 7.970 BETAO (2) = -4.030

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3790	.4990	.5780
PHI															
20.000		1.3130	.7082	.1166	.0160	-.0751	-.0307	-.2366		-.2936	.0209	-.0422	-.0323	.0302	.1269
40.000				.2626	.0904	.0303	-.0836	-.3678		-.2627					
50.000				.5323	.2329	.1037	-.0137	-.2900		-.2224	.0404	-.0449	-.0426	-.0192	.2009
55.000				.6666	.3620	.2122	.0625	-.0717		-.0961					
70.000				.6613	.3679	.2011	.0934	.0283		-.0714	-.3321	-.1291	-.1060	-.1971	
90.000		.6184		.9068	.3699	.1579	.0661	.1014		.0014	-.3645	-.1599	-.1705	-.2021	
100.000				.4680	.1961	.1217	.1142	.3349		-.0472	-.3669	-.5374	-.4646	-.3863	
140.000										-.1232					
190.000				.3325	.2031	.0917	.1022			-.3536	-.7027	-.6194	-.3425	-.1213	
191.000								.4807							
196.000								.7638							
162.000															



ARC11-716 1A14 CR+T12+S12MS ORG. FUSELAGE (R81848)

ALPHAX (3) = 7.970 BETA0 (2) = -4.030

SECTION (1) ORBIT. : FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
105.000															
109.000															
174.000															
190.000	1.3130	.5737	.2620	.1909	.1267	.0867	.0418	.0226							
W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
40.000															
60.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000	.0754	.0878	.2795	.4675											

ALPHAX (3) = 6.060 BETA0 (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
156.000															
162.000															
169.000															
174.000															
180.000	1.3340	.9655	.8834	.8203	.7466	.6844									
W/LB	.6590	.7500	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					

DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

(R81849)

CRG. FUSELAGE

ARC11-716 1A14 04+712+SIDES

ALPHAO (3) = 0.000 BETAO (3) = .040

SECTION (11)ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6330	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0400
PWT										
.000	.1917	.1766	.0826	-.1341	-.2644	.0000	-.2546		-.1466	-.1787
40.000	.1840	.1999	.1324	-.0373	-.5143	-.3627	-.2731		.0000	.0000
70.000	-.0210	-.2099	-.3103	-.0910	-.1022	-.1675	-.2030			
90.000	.0096	-.1865	-.1109	-.0544	-.1666	-.2010	-.2360			
105.000		.0725	-.0841	-.2337	-.2908	-.2993				
110.000										
120.000	.0027	-.0030	.1031	.1366	-.3306	-.2010	-.2478			
135.000			.4015	.2303	-.2353	-.2000	-.2337			
150.000	.1068	.0863	.3971	.3036	-.1725	-.2109	-.3375			
165.000	.1243		.3301		-.0439	-.2093	-.3307			
180.000	.1296	.1162	.3296	.3027						

ALPHAO (3) = 0.000 BETAO (4) = 4.140

SECTION (11)ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1870	.1780	.2030	.2220	.3010	.3790	.4990	.5760
PWT															
.000	1.3080	.6810	.1104	.0961	.0193	-.0132		-.1491		-.1236	.0129	.0253	-.0204	.0002	.0016
20.000		.1446	.0632	.0296	-.0543			-.3228		-.2421					
40.000		.2477	.0967	.0374	-.1068			-.3436		-.2512	-.0518	-.0320	-.0427	.0078	.1126
55.000		.2930	.112	.0375	-.1330			-.2323		-.1912					
70.000		.3144	.1088	.0207	-.0930			-.1434		-.2345	-.2666	-.2977	-.2226	-.1966	
90.000	.3913	.2703	.1029	-.0282	-.1112			-.0909		-.1693	-.3563	-.2816	-.2796	-.1039	
100.000		.3091	.0579	.0246	-.0290			.1393		-.2826	-.3666	-.3947	-.2648	-.0674	
140.000			.2806	.1829	.0663	-.0004				-.4636	-.5922	-.7273	-.5362	-.2516	-.0204
150.000								.2814							
151.000								.9933							
154.000								.7960							
162.000						.7990									
165.000															
169.000															
174.000															
180.000	1.3080	.6810	.1104	.0961	.0193	-.0132									

W/LB	.6330	.7300	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0400
PWT										
.000	.1423	.1042	.0011	-.2301	-.3240	.0000	-.2645		-.1600	-.1676
40.000	.1309	.1193	.0376	-.1632	-.3646	-.3379	-.2414		.0000	.0000
70.000	-.0934	-.2442	-.2465	.0413	-.1449	-.2093	-.2231			
90.000	-.0263	-.1798	-.0710	-.0491	-.1849	-.2314	-.2516			
105.000		.0460	-.1041	-.2234	-.2693	-.2875				
110.000										



D

ARC11-716 IA14 OI-TIE-SIZES CRG. PURCHASE (R81849)

ALPHAO(5) = 0.000 BETA0 (4) = 4.140

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400
PHI										
120.000	.0006	.0001	.1299	-.0503	-.3439	-.2326	-.3107	-.3445		
135.000			.2879	.2425	-.3009	-.2965	-.3270			
150.000	.0791	.1071	.3752	.3661	-.2029	-.3080	-.4274			
165.000	.0737		.3143		-.1056	-.3072	-.3651			
180.000	.0726	.0983	.2723	.4427						

ALPHAO(5) = 0.030 BETA0 (5) = 0.270

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.2050	.2520	.3010	.3790	.4990	.5780
PHI														
.000	1.1920	.2916	.0538	-.0185	-.0630	-.0431		-.2367	-.0023	-.0314	-.0486	-.1433	-.0770	-.0030
20.000			-.0015	.0014	-.0828	-.0793		-.3019	-.0187					
40.000			.0438	.0014	-.0474	-.1335		-.3423	-.0749	-.0990	-.1653	-.1941	-.0366	.0606
55.000			.1124	-.0226	-.0297	-.2039		-.2902	-.1236					
70.000			.1539	-.0392	-.0760	-.1820		-.1967	-.2145	-.4180	-.3633	-.3105	-.0766	
90.000		.0575	.1132	-.0395	-.1265	-.1943		-.1480	-.2642	-.5728	-.4032	-.3048	-.0496	
120.000		.1946	.0160	-.0709	-.1048			-.0324	-.3922	-.6379	-.6736	-.2943	-.0242	
140.000									-.8036					
150.000		.1863	.1140	.0107	-.0456			.1109	-.6327	-.7236	-.5266	-.3497	-.0707	
156.000								.4895						
162.000														
165.000														
169.000														
174.000														
180.000	1.1920	.4002	.2339	.1448	.0910	.0465	.7137	.6389	-.6304	-.6882	-.9290	-.4366	-.1190	

ALPHAO(5) = 0.050 BETA0 (5) = 0.270

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.6530	.7300	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400
PHI										
.000	.0673	.0274	-.0563	-.3909	-.3779	.0000	-.2920		-.1948	-.1719
40.000	.0907	.0817	.0052	-.1969	-.2929	-.3317	-.2834		.0000	.0000
70.000	-.0841	-.2187	-.2291	.0639	-.1830	-.2796	-.2872			
90.000	-.0344	-.1655	-.0936	.0272	-.2222	-.2812	-.3190			
105.000		.0064	-.0712	-.2747	-.3297	-.3442				
110.000										
120.000	.0368	-.0430	.1802	-.0961	-.3240	-.3227	-.3769	-.3640		
135.000			.2240	.2214	-.4213	-.4127	-.4178			
150.000	.0182	-.0066	.2540	.2348	-.2315	-.3988	-.3292			
165.000	-.0022		.1554		-.1962	-.3681	-.3533			
180.000	.0008	-.0212	.1396	.2803						

ARC11-716 1A14 CR-T12H212M23

CRB. FUELAGE (R81850) (15 FEB 74)

REFERENCE DATA

BRP = 2.4210 50.FT. WARP = 29.5800 INCHES
 LWRP = 30.7090 INCHES YWRP = .0000 INCHES
 ZWRP = 30.7090 INCHES ZWRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.250 ELEVON = .000
 RUDDER = .000 SPDRNK = .000

ALPHAO (1) = -0.010 BETAO (1) = -0.020

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1125	.1590	.1870	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.3410	.7599	.3721	.2247	.1249	.1249	.0759	.0011	-.0447	-.1669	-.2218	-.1908	-.0202	
80.000			.4402	.2834	.2103	.1503		.1773	.1752						
40.000			.6797	.5091	.2757	.2059		.2096	-.0421	-.0904	.0601	.0082	-.0102	.0130	
20.000			.6313	.5547	.4253	.3466		.2309	.1812						
10.000			.6848	.6339	.4904	.4291		.3206	.2077	-.2120	-.0183	-.0319	.0023		
90.000		1.1230	.9073	.6800	.5199	.4848		.3437	.2276	-.1360	-.0755	-.0425	-.0007		
120.000			.8602	.6802	.5981	.6121		.5882	.2276	-.0681	-.3383	-.0494	-.0324		
140.000			.7599	.6336	.5806	.6332		.7037	.1830	-.3788	-.2567	-.1034	-.0778		
160.000								.9396							
180.000								.7436							
190.000									-.2503	-.3282	-.2547	-.1280	-.1183		
170.000								.9743							
150.000															
130.000															
110.000															
100.000															

PHI

80.000	.0217	-.0220	.0431	-.0904	-.0408	.0000	-.3682								
40.000	.0090	-.0216	-.1015	-.0190	-.3955	-.5396	-.2240								
20.000	.0417	-.0425	-.0943	-.2648	.1360	.1303	.1786								
90.000	.0728	-.0045	.0296	.2451	.0657	.1059	.1687								
120.000			.2456	.1776	.0494	.1386									
140.000			.3464	.3602	.0032	.1605	.1036								
160.000			.5129	.3789	.1277	.2715	.1582								
180.000			.3644	.5315	.3244	.3275	.0677								
190.000			.3781	.4439	.3479	-.0342									
170.000			.4036	.4676											



ARC11-716 1A14 CR-712-SIDES ORB. FUELSAGE (R01890)

ALPHAO1 1) = -0.000 BETAO (3) = .000

SECTION (1) ORBITER FUELSAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760
PW1															
120.000			.7141	.8234	.4291	.4667		.3679		-.0469	-.2746	-.4933	-.1918	-.0969	
140.000										-.1828					
160.000			.7279	.6196	.5403	.3633				-.2572	-.3901	-.2272	-.1977	-.0763	
180.000									.5496						
190.000									.6315						
195.000										-.2577	-.3129	-.1434	-.1903	-.0800	
199.000								.9467							
174.000						1.0000									
160.000	1.4000	.9416	.7271	.6854	.9646	.6323		.9317		-.2694	-.3629	-.1169	-.1416	-.0733	
W/LB	.6900	.7900	.7010	.6230	.6600	.9230	.9400	1.0000	1.0210	1.0490					

ALPHAO1 3) = -0.010 BETAO (4) = 4.100

SECTION (1) ORBITER FUELSAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760
PW1															
120.000															
140.000															
160.000															
180.000															
190.000															
195.000															
199.000															
174.000															
160.000	1.3620	.7427	.3169	.2401	.2120	.2033		.0939		.0693	-.0236	-.1341	-.1751	-.2709	-.1030
W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760

SECTION (1) ORBITER FUELSAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760
PW1															
120.000															
140.000															
160.000															
180.000															
190.000															
195.000															
199.000															
174.000															
160.000	1.3620	.7427	.3169	.2401	.2120	.2033		.0939		.0693	-.0236	-.1341	-.1751	-.2709	-.1030
W/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760

ORIGINAL PAGE IS OF POOR QUALITY





ARC11-716 IAI4 OR-TIE-818265

CRS. FUELBASE

RR018901

ALPHAX 1) = -0.010 BETAO (4) = 0.100

SECTION (1) OR-TIE FUELBASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1670	.1700	.2050	.2050	.3010	.3700	.4900	.3700
PWT															
100.000															
100.000															
174.000															
100.000															
W/LB	.0000	.7000	.7010	.0230	.0470	.0700	.1120	.1900	.1670	.1700	.2050	.2050	.3010	.3700	.4900
PWT															
100.000															
100.000															
174.000															
100.000															

ALPHAX 1) = -0.000 BETAO (3) = 0.100

SECTION (1) OR-TIE FUELBASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1670	.1700	.2050	.2050	.3010	.3700	.4900	.3700
PWT															
100.000															
100.000															
174.000															
100.000															
W/LB	.0000 <td>.7000 <td>.7010 <td>.0230 <td>.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td></td></td></td></td>	.7000 <td>.7010 <td>.0230 <td>.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td></td></td></td>	.7010 <td>.0230 <td>.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td></td></td>	.0230 <td>.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td></td>	.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td>	.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td>	.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td>	.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td>	.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td>	.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td>	.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td>	.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td>	.3010 <td>.3700 <td>.4900 </td></td>	.3700 <td>.4900 </td>	.4900
PWT															
100.000															
100.000															
174.000															
100.000															

ALPHAX 1) = -0.000 BETAO (3) = 0.100

SECTION (1) OR-TIE FUELBASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1670	.1700	.2050	.2050	.3010	.3700	.4900	.3700
PWT															
100.000															
100.000															
174.000															
100.000															
W/LB	.0000 <td>.7000 <td>.7010 <td>.0230 <td>.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td></td></td></td></td>	.7000 <td>.7010 <td>.0230 <td>.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td></td></td></td>	.7010 <td>.0230 <td>.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td></td></td>	.0230 <td>.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td></td>	.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td>	.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td>	.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td>	.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td>	.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td>	.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td>	.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td>	.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td>	.3010 <td>.3700 <td>.4900 </td></td>	.3700 <td>.4900 </td>	.4900
PWT															
100.000															
100.000															
174.000															
100.000															

ALPHAX 1) = -0.010 BETAO (4) = 0.100

SECTION (1) OR-TIE FUELBASE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0000	.0470	.0700	.1120	.1900	.1670	.1700	.2050	.2050	.3010	.3700	.4900	.3700
PWT															
100.000															
100.000															
174.000															
100.000															
W/LB	.0000 <td>.7000 <td>.7010 <td>.0230 <td>.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td></td></td></td></td>	.7000 <td>.7010 <td>.0230 <td>.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td></td></td></td>	.7010 <td>.0230 <td>.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td></td></td>	.0230 <td>.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td></td>	.0470 <td>.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td></td>	.0700 <td>.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td></td>	.1120 <td>.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td></td>	.1900 <td>.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td></td>	.1670 <td>.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td></td>	.1700 <td>.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td></td>	.2050 <td>.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td></td>	.2050 <td>.3010 <td>.3700 <td>.4900 </td></td></td>	.3010 <td>.3700 <td>.4900 </td></td>	.3700 <td>.4900 </td>	.4900
PWT															
100.000															
100.000															
174.000															
100.000															



MFC11-716 1A14 OR-TIP-SIZES CRG. FUEL/AGE

ALPHA(1) = -0.000 BETA(1) = 0.100

SECTION (1) ORBITER FUEL/AGE DEPENDENT VARIABLE CP

W/LB	.0000	.7500	.7510	.0200	.0000	.9000	.9000	1.0000	1.0010	1.0400
PHI										
800	-1.043	-0.002	-0.001	-0.379	-0.274	0.000	-0.002		-0.202	-0.203
40.000	-0.074	-0.016	-1.000	-0.202	-0.430	-0.293	-0.334		0.000	0.000
70.000	-0.000	0.000	0.000	0.000	0.000	0.000	0.000			
90.000	-0.000	0.124	1.000	1.000	0.000	-0.047	-0.047			
100.000										
110.000										
120.000	-0.070	1.000	-0.000	-0.000	-0.000	-0.000	-0.000			
130.000										
140.000	-0.073	0.019	0.000	0.000	-0.000	-0.000	-0.000			
150.000	-0.107									
160.000	-0.129	-0.002	-0.015	0.000						

ALPHA(2) = -0.000 BETA(2) = -0.000

SECTION (2) ORBITER FUEL/AGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1100	.1000	.1070	.1700	.2000	.2000	.3000	.3700	.4000	.4700
PHI															
800	1.0000	0.000	0.000	0.000	0.000	0.000	0.000								
40.000															
70.000															
90.000															
100.000															
110.000															
120.000															
130.000															
140.000															
150.000															
160.000															

ALPHA(3) = -0.000 BETA(3) = -0.000

SECTION (3) ORBITER FUEL/AGE DEPENDENT VARIABLE CP

W/LB	.0000	.7500	.7510	.0200	.0000	.9000	.9000	1.0000	1.0010	1.0400
PHI										
800	1.007	0.043	0.000	0.000	-0.000	0.000	-0.000			
40.000	0.100	0.000	0.000	0.000	0.000	0.000	0.000			
70.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000			
90.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
100.000										
110.000										



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ARC11-716 1A14 ORBITER FUSELAGE (R01050)

ALPHAO (2) = -3.940 BETA0 (3) = .050

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0060	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.4190	.0783	.3554	.1667	.1662	.1250		-.0924	.0166	.0241	-.0636	-.1307	-.2166	-.0696	
	20.000		.3696	.2166	.1662	.0904		-.1717		-.0903						
	40.000		.5024	.2664	.1761	.1027		-.0719		-.0943	-.1296	-.0566	-.0527	-.1474	-.0677	
	55.000		.5799	.3311	.2221	.1427		.0408		.0173						
	70.000		.6046	.3641	.2346	.1333		.0263		.0077	-.3365	-.2500	-.1677	-.1023		
	90.000	.7996	.5916	.3982	2.406	.1776		.1005		-.0714	-.3354	-.3235	-.1643	-.0599		
	120.000		.6392	.4443	.3457	.3783		.3464		-.1922	-.3226	-.4972	-.2028	-.1145		
	140.000		.6260	.3096	.4253	.4666			.5123	-.3294	-.4468	-.3201	-.1981	-.1071		
	151.000							.8028								
	156.000								.5925							
	162.000									-.3096	-.3946	-.2416	-.2015	-.1071		
	165.000															
	169.000															
	174.000															
	180.000	1.4190	.8327	.6141	.5226	.4331	.5281	1.0060	.8694	-.4612	-.4325	-.2060	-.2013	-.1075		
X/LB	.6530	.7500	.7610	.8290	.8620	.9230	.9630	1.0020	1.0480							

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0060	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	0.464	.0372	-.0177	-.0668	-.4110	.0000	-.3177		-.2285	-.2325					
	20.000		.0492	.0127	.3355	-.0193	-.4271	-.4394		.0000	.0000					
	40.000		-.0185	-.0861	.1463	.0271	-.0164	-.0185								
	50.000		-.0065	-.0354	.0626	.1174	-.0324	-.0241								
	105.000		.1616	.0607	-.0717	-.0624	-.0506		-.1720							
	110.000								-.1366							
	120.000	-.0239	.0321	.1656	.1227	-.2063	-.0546	-.0935								
	135.000			.4695	.4096	-.1203	-.0693	-.0940								
	150.000	-.0222	.0466	.4303	.4922	.0346	-.0159	-.1629								
	165.000	-.0225		.4235		.1722	.0039	-.2341								
	180.000	-.0325	.0443	.4245	.4626											

ALPHAO (2) = -3.940 BETA0 (4) = 4.09C

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB		.0000	.0060	.0250	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	.000	1.3970	.7860	.3002	.1666	.1670	.1440		.0319	.0965	-.0006	-.1147	-.1616	-.2331	-.0769	
	20.000		.3017	.1714	.1675	.0703		-.1690		-.0107						
	40.000		.3651	.1766	.1572	.0565		-.1312		-.1042	-.0516	-.0926	-.1261	-.2244	-.0687	
	55.000		.4199	.1937	.1611	.0449		.0022		-.0804						
	70.000		.4579	.2197	.1606	.0066		-.0122		-.0865	-.4079	-.2977	-.2434	-.1130		
	90.000	.5468	.4740	.2606	.1436	.0793		.0540		-.1350	-.4235	-.3930	-.2163	-.1067		

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 1A14 ORBITER FUSELAGE (R61890)

ALPHAO (2) = -3.940 BETAO (4) = 4.090

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
120.000		.9274	.3403	.2443	.2911		.2303								
140.000															
150.000		.5010	.4529	.3542	.4258										
151.000															
156.000															
162.000															
165.000															
169.000															
174.000															
180.000	1.2870	.6097	.6044	.5143	.4510	.3130	.9602								
X/LB	.6330	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0460					

ALPHAO (2) = -3.950 BETAO (5) = 6.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.750															
150.000															
165.000															
180.000															

ALPHAO (2) = -3.950 BETAO (5) = 6.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2030	.2520	.3010	.3790	.4990	.5760
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
140.000															
150.000															
156.000															
162.000															

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ARC11-716 1A14 0A+112+S12M25 ORG. FUSELAGE (RB1650)

ALPHAO(2) = -3.950 BETA0 (5) = 8.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	165.000														
	169.000					.7884									
	174.000						.9000								
	190.000	1.3200	.7547	.5461	.4475	.3922	.4580	.7932							
X/LB	.6530	.7500	.7610	.8230	.8820	.5730	.9630	1.0020	1.0210	1.0480					

PHI

	110.000														
	120.000	-0.0105	.1099	-.0342	-.1838	-.3528	-.2027	-.2468	-.2780						
	135.000		.1951	.2980	-.3430	-.3846	-.4277								
	150.000	-.0507	.1300	.3153	.5956	-.0719	-.2067	-.3369							
	165.000	-.1115		.3493		.0319	-.1557	-.3330							
	180.000	-.1686	.0024	.3479	.4182										

ALPHAO(3) = -3.340 BETA0 (1) = -8.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PHI	20.000														
	40.000														
	55.000														
	70.000														
	90.000	1.0670	.8254	.5777	.3407	.3992	.2892	.2692							
	120.000		.7282	.4907	.5709	.4083	.5136	.1136							
	140.000		.5477	.4127	.3242	.4215		.0442							
	150.000														
	156.000														
	162.000														
	165.000														
	169.000														
	174.000														
	190.000	1.3200	.7420	.4171	.3437	.2945	.3031	.7115							
X/LB	.6550	.7500	.7610	.8230	.8820	.9250	.9630	1.0020	1.0210	1.0480					



(R01850)

ORB. FUSELAGE

ALPHAO(3) = -.390 BETA0 (2) = -4.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0778	-.0831	.2189	.2379	-.1897	-.0647	-.0637	-.1354		
135.000		.4317	.9002	-.1100	.6200	-.0273				
150.000	-.0888	-.0088	.3206	.2932	.0501	.0713	-.1157			
165.000	-.0699		.3187	.2005	.0651	-.1889				
180.000	-.0884	.0987	.3091	.3493						

ALPHAO(3) = -.380 BETA0 (3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0060	.0230	.0470	.0700	.1120	.1590	.1670	.1780	.2050	.2520	.3010	.3790	.4990	.5760
PHI															
1.4200	1.4200	.6429	.3468	.1900	.1475	.0685		-.1453		-.2195	-.0393	-.0814	-.0973	-.1800	-.0178
20.000		.3623	.1802	.1610	.0699			-.2087		-.1982					
40.000		.3009	.1826	.0753				-.1088		-.1487	-.1110	-.0308	-.0819	-.1556	-.0333
55.000		.5640	.3080	.1964	.0363			.0177		-.1122					
70.000		.5673	.3332	.1964	.0703			.0155		-.0343	-.4132	-.2380	-.1825	-.1277	
90.000	.7237	.5732	.3490	.1799	.0867			.0890		-.0548	-.3719	-.3860	-.2038	-.1189	
120.000		.5785	.3786	.2678	.2934			.3348		-.0800	-.3439	-.3382	-.2107	-.1388	
140.000										-.1901					
150.000		.5401	.4233	.3248	.3914				.4849	-.3993	-.5033	-.3772	-.2663	-.1271	
151.000								.7770							
156.000									.5566						
162.000										-.3515	-.4441	-.3079	-.2711	-.1245	
165.000															
169.000								.8767							
174.000							.9672								
180.000	1.4200	.7817	.5163	.4235	.3610	.4318		.8492		-.3197	-.4820	-.2881	-.2730	-.1167	

X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
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PHI	.0000	.0643	.0645	.0078	-.0927	-.3603	.0000	-.3036		
40.000		.0785	.0308	.0172	-.3813	-.3274	-.4468		-.1965	-.2132
70.000	-.0309	-.1470	-.1339	.0720	-.0236	-.0732	-.0743		.0000	.0000
90.000	-.0207	-.0743	-.0034	.0306	-.0727	-.0939	-.0917			
105.000		.1037	-.0019	-.1260	-.1254	-.1236				
110.000								-.2109		
120.000	-.0178	.0531	.1429	.1436	-.2235	-.1134	-.1378			
135.000		.2918	.3966	-.1296	-.0941	-.1455				
150.000	-.0363	.1336	.3194	.3974	.0044	-.0303	-.2055			
165.000	-.0373	.3371	.1281	-.0329	-.2437					
180.000	-.0481	.1144	.3440	.4204						



ARC11-716 IA14 O4-T12-S12825 CR8. PUSBLAGE (R81850)

ALPHAO(3) = -.360 BETAO (5) = 0.120

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

V/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
120.000			.3336	.1553	.0406	.0603		.0623		-.3063	-.4962	-.6768	-.3579	-.0723	
140.000										-.4743					
150.000			.3654	.2691	.1867	.2167				-.4741	-.5584	-.3507	-.3696	-.2439	
151.000								.5776	.2294						
156.000									.3936						
162.000										-.4628	-.4999	-.3642	-.3061	-.3143	
166.000								.7990							
168.000															
174.000							.6683								
190.000	1.2940	.6962	.4536	.3542	.2960	.3242		.7516		-.4938	-.4664	-.3629	-.2657	-.2778	

V/LB .6930 .7300 .7610 .8230 .8620 .9230 .9630 1.0020 1.0210 1.0460

V/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000			-.0804	-.0354	-.0530	-.3269	-.4393	.0000	-.3677						
40.000			-.0115	.0032	-.0450	-.1942	-.3836	-.3021	-.3145						
70.000			-.0432	-.1317	-.0650	.0841	-.0309	-.1199	-.1396						
90.000			-.0175	-.0421	.0023	.0233	-.1084	-.1363	-.1776						
105.000					.0806	-.0085	-.1539	-.1714	-.2040						
110.000									-.3066						
120.000			-.0221	.0764	.0472	-.0832	-.3059	-.2292	-.2709						
139.000					.1496	.3344	-.3434	-.3637	-.4247						
150.000			-.0362	.1230	.2254	.3873	-.1042	-.2365	-.3760						
169.000			-.0312		.2430		-.0199	-.1901	-.3403						
180.000			-.0742	.0313	.2685	.3392									

ALPHAO(4) = 4.010 BETAO (1) = -0.060

SECTION (1) ORBITER PUSBLAGE DEPENDENT VARIABLE CP

V/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000			1.3070	.8799	.3695	.1952	.0432	.0564		-.1994	-.0747	-.0360	-.1244	-.0373	.1306
25.000					.9161	.2647	.1260	.0143		-.2464					
46.000					.7673	.4132	.2497	.0640		-.1454	-.0676	.0435	.0755	.0298	.0914
55.000					.6726	.3740	.3951	.2209		-.0235					
70.000					.6636	.9051	.3914	.2571		.0777	-.2792	-.0126	.0086	-.0955	
90.000			1.0370		.7977	.5643	.3578	.2727		.1922	-.2479	-.1221	-.0669	-.1030	
120.000					.6972	.4132	.3016	.2614		.1340	-.1921	-.4431	-.3341	-.3202	
140.000										.0873					
150.000					.4910	.3027	.2251	.2312		.0125	-.5560	-.4901	-.3077	-.2681	
151.000									.6232						
156.000															
162.000															

ORIGINAL PAGE IS OF POOR QUALITY



ARC11-716 1A14 06-718-SIDES CRG. PURCHASE

0818901

ALPHAO1 4) = 4.010 BETA0 (2) = -4.030

SECTION (1)ORBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.6530	.7900	.7910	.6230	.6420	.9230	.9430	1.0020	1.0210	1.0460
PHI										
.000	1.483	1.619	1.181	-0.009	-0.277	.0000	-0.2003		-0.1442	-0.1316
40.000	1.985	2.430	2.991	1.874	-0.018	-0.990	-0.4914		.0000	.0000
70.000	-0.047	-0.2378	-0.2960	-0.1010	-0.023	-0.119	-0.0972			
90.000	-0.0761	-1.081	-2.430	0.027	-0.1261	-0.1311	-0.1471			
105.000			0.0220	-0.0311	-0.1933	-0.1764	-0.1905			
110.000										-0.2087
120.000	-1.084	-1.924	1.643	2.634	-0.273	-0.072	-0.1247			-0.1790
135.000			0.326	2.128	-0.037	-0.0983				
150.000	-0.068	0.0371	2.399	2.178	-0.019	0.0183	-0.1631			
165.000	-0.0484		2.985		0.1362	0.0167	-0.2097			
180.000	-0.0316	0.1340	2.294	3.191						

ALPHAO1 4) = 4.020 BETA0 (3) = 0.40

SECTION (1)ORBITER PURCHASE DEPENDENT VARIABLE CP

W/LB	.5000	.0090	.0230	.0470	.0700	.1120	.1590	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.4040	0.743	3.016	1.042	1.441	1.087		-0.0821		-0.2320	-0.3226	0.0121	-0.0460	-0.0764	0.0337
20.000			0.916	1.173	1.703	0.915		-0.2274		-0.2054					
40.000			0.943	2.002	1.653	0.624		-0.1588		-0.1990	-0.1984	-0.0263	-0.0506	-0.0961	0.0433
55.000			0.983	2.773	1.953	0.676		-0.0425		-0.1649					
70.000			0.647	2.971	1.736	1.094		-0.4009		-0.0999	-0.4367	-0.2381	-0.1490	-0.1573	
90.000		0.630	0.949	3.181	1.342	0.682		0.267		-0.0354	-0.3968	-0.4240	-0.2023	-0.1413	
120.000			0.184	3.060	1.956	1.519		0.311		-0.0696	-0.3689	-0.5628	-0.2482	-0.1738	
140.000										-0.3929	-0.5640	-0.4402	-0.3233	-0.1174	
150.000			0.4546	3.354	2.323	2.002			0.4783						
171.000									0.7705						
196.000										0.5395					
162.000											-0.4107	-0.5134	-0.3776	-0.3327	-0.1007
169.000															
174.000						0.9261									
190.000	1.4040	0.753	4.146	3.983	2.619	2.060									
W/LB	.6530	.7900	.7910	.6230	.6420	.9230	.9430	1.0020	1.0210	1.0460					

PHI

.000	1.199	1.229	0.793	-0.0812	-0.3440	.0000	-0.2793		-0.1629	-0.1621
40.000	1.110	1.913	1.496	0.365	-0.3673	-0.530	-0.4330		.0000	.0000
70.000	-0.0789	-0.1993	-0.2498	-0.0651	-0.0651	-0.1374	-0.1348			
90.000	-0.0416	-0.1248	-0.0949	-0.0140	-0.1302	-0.1509	-0.1661			
105.000			0.0771	-0.0404	-0.2169	-0.1967	-0.1832			
110.000										-0.2440



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(R01850)

ORG. FUSELAGE

ARC11-716 1A14 04+712+512M25

ALPHAO(4) = 4.020 BETAO(3) = .040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6030	.7300	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400
PHI										
20.000	-.0341	-.0341	.1332	.1996	-.2682	-.2199	-.1786	-.2164		
135.000			.3922	.3107	-.1676	-.1236	-.1887			
150.000	-.0184	.1047	.3103	.3011	-.0341	-.1014	-.2451			
165.000	-.0176		.2983		.0670	-.0894	-.2475			
180.000	-.0803	.1176	.2930	.3621						

ALPHAO(4) = 4.020 BETAO(4) = 4.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	1.3730	.8230	.2448	.1022	.1263	.1237		-.0163		-.2166	-.2018	.0149	-.0699	-.0679	-.0170
80.000			.2353	.1043	.1163	.0469		-.2219		-.2249	-.2443	-.2371	-.0933	-.1251	-.0968
40.000			.3342	.1268	.1187	-.0074		-.2363		-.1979	-.1979	-.1979	-.0933	-.1251	-.0968
55.000			.3855	.1501	.1196	-.0265		-.1039		-.1219	-.4902	-.3329	-.2276	-.1992	
70.000			.4109	.1643	.0920	-.0263		-.0729		-.1018	-.4375	-.4923	-.2530	-.1312	
90.000		.4684	.3815	.1837	.0921	-.0206		-.0037		-.1608	-.4375	-.6176	-.2581	-.1315	
120.000			.4242	.2269	.1355	.0936		.7458		-.3563					
140.000			.4064	.3046	.1638	.1267			.3652						
150.000								.6712							
196.000									.4548						
162.000										-.6185	-.5967	-.3379	-.3492	-.1177	
169.000															
174.000							.8871		.8179						
180.000	1.3730	.6900	.6239	.3937	.2960	.2019		.6000		-.5362	-.9008	-.3818	-.3296	-.1960	

ALPHAO(4) = 4.020 BETAO(4) = 4.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.6030	.7300	.7910	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0400
PHI										
20.000	.0763	.0680	.0127	-.2339	-.2713	.0000	-.2909		-.1190	-.1303
80.000	.0960	.0767	.0302	-.1277	-.3392	-.3987	-.2919		.0000	.0000
70.000	.0827	-.1796	-.2016	-.0437	-.0794	-.1103	-.1143			
91.000	-.0218	-.1031	-.0622	-.0337	-.1478	-.1224	-.1468			
105.000			.0493	-.0313	-.2446	-.1942	-.1718			
110.000										
120.000	.0063	.0276	.1837	.0231	-.2939	-.2294	-.2068			
135.000			.3339	.3116	-.2432	-.1687	-.2483			
150.000	-.0082	.1231	.2983	.2962	-.0790	-.1642	-.3137			
168.000	-.0231	.2174			.0100	-.1060	-.2906			
180.000	-.0341	.1339	.2277	.3267						

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ARC11-716 1A14 04112-312M25 ORB. FUSELAGE (R01890)

ALPHAO(4) = 0.000 BETA0 (5) = 0.170

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0040	.0200	.0470	.0700	.1120	.1700	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2720	.7129	.1401	-.0337	.0956	.0240	-.1371	-.1635	-.0968	-.1367	-.1337	-.0175	-.1016		
20.000		.0711	.0271	.0656	-.0061		-.1767	-.1635							
40.000		.0960	.0541	.0473	-.0693		-.2553	-.2738	-.1330	-.1737	-.2258	-.0759	.0169		
55.000			.1632	.0247	.0168	-.1141	-.1662	-.2033							
70.000			.2176	.0221	-.0067	-.1153	-.1197	-.1623	-.3037	-.3797	-.2965	-.0466			
90.000	.1750		.2072	.0432	-.0401	-.0694	-.0701	-.1915	-.3194	-.5267	-.2681	-.0337			
120.000			.2048	.1156	.0162	-.0273	.0953	-.2919	-.3193	-.6780	-.3231	-.0316			
140.000								-.4734							
150.000			.2890	.2215	.1217	.0577	.2075	-.4694	-.9919	-.4062	-.4141	-.1284			
151.000							.9567								
154.000								.3632							
162.000									-.8005	-.5475	-.4145	-.3751	-.2470		
164.000							.7237								
169.000						.6264									
174.000															
180.000	1.2720	.9222	.3475	.2885	.2038	.1530	.7034		-.2266	-.5269	-.4245	-.3560	-.3126		
W/LB	.6930	.7500	.7610	.6230	.6620	.9430	1.0220	1.0210	1.0490						

PHI	.000	.0276	.0369	-.0137	-.3193	-.4696	.0000	-.3275
.000								
46.000		.0464	.0555	-.0026	-.1609	-.3396	-.2732	-.2740
70.000		-.0528	-.1930	-.1742	.0423	-.0821	-.1676	-.1669
90.000		-.0191	-.1248	-.0677	-.0155	-.1138	-.1682	-.2165
104.000			.0435	-.0163	-.2340	-.2237	-.2550	
110.000							-.3126	
120.000		-.0233	-.0130	.2407	-.0266	-.3169	-.2491	-.2710
135.000			.3596	.2365	-.2944	-.3302	-.3717	
150.000		-.0133	.0818	.1850	.1600	-.1302	-.2620	-.3920
165.000		-.0167	.1683		-.0900	-.2411	-.3300	
190.000	-.0316	.0819	.1616	.2183				

ALPHAO(5) = 0.000 BETA0 (1) = -0.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0240	.0230	.0470	.0700	.1120	.1700	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PHI															
.000	1.2770	.9171	.4066	.1487	.0086	.0151	-.1763	-.1569	-.0335	.0365	-.0514	.0397	.1364		
20.000			.5493	.2758	.1016	-.0457	-.2666	-.2343							
40.000			.9174	.4630	.2660	.0490	-.1462	-.1339	-.0628	.0151	.0649	.0609	.2199		
55.000			.9025	.6100	.4121	.1918	.0997	-.0045							
70.000			.8670	.5968	.3829	.2204	.0785	.0641	-.2128	-.0158	.0161	-.0745			
90.000	1.0060	.7699	.5424	.3301	.2215		.1002	.1993	-.0002	-.0514	-.0647	-.1106			

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0818501

CRG. FUELSAGE

ALPHAO (1) = 0.000 BETAO (1) = -0.030

MEC11-718 1A14 CR+T12+312M2

SECTION (1)-ORBITER FUELSAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.3700	.4000	.3700	.4000	.3700
PW1													
180.000	.8970	.8333	.8055	.1746	.4197	.1220	-.2042	-.4055	-.4206	-.5296			
140.000						.0970							
120.000	.3796	.1970	.1305	.1301		-.0325	-.6165	-.5269	-.4112	-.3427			
191.000					.6037								
196.000				.6434									
162.000				.8533									
169.000				.6325									
174.000			.1270	.9884	.2507	.1727	.1203	.0663	.0827				
160.000	.6690	.7500	.7810	.6250	.6020	.6250	.9430	1.0210	1.0460				

PW1

W/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.3700	.4000	.3700	.4000	.3700
.000	.1898	.8019	.1400	-.0142	-.3911	.0000	-.2039						
40.000	.8093	.8237	.2350	-.3637	-.3931	-.4951							
70.000	-.0776	-.2747	-.3539	-.3049	-.1713	-.1132	-.0787						
90.000	-.0715	-.2532	-.3423	-.0752	-.1799	-.2016	-.0826						
109.000		-.1056	-.0707	-.1911	-.2733	-.2187							
110.000						-.2139							
120.000	-.9680	-.8250	.0264	.2998	-.2941	-.2414	-.1200						
136.000		.2024	.0947	-.3274	-.0787	-.1292							
150.000	-.1080	-.0468	.0832	.1182	-.0940	-.0827	-.2019						
166.000	-.0712	.0948		.0339	.0549	-.1909							
160.000	-.0479	-.0436	.1020	.2714									

ALPHAO (2) = 0.000 BETAO (2) = -3.060

SECTION (1)-ORBITER FUELSAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.3700	.4000	.3700	.4000	.3700
PW1													
80.000	1.3968	.9109	.3487	.1118	.1100	.0373	-.1664						
40.000		.4679	.2121	.1097	.0192		-.2400						
95.000		.6873	.3200	.2000	.0643		-.1863						
70.000		.7521	.4677	.2903	.1234		-.0050						
90.000		.7221	.4601	.2773	.1441		-.0204						
120.000	.6408	.6826	.4323	.2334	.1907	.0311	.0772	-.3276	-.2323	-.1393	-.1987		
140.000		.3350	.2427	.1623	.1417	.3949	.0264	-.2523	-.3118	-.4006	-.3488		
150.000		.3643	.2461	.1670	.1370		-.0468						
191.000						.9436							
196.000				.6324									
162.000													
169.000													
174.000													
160.000													

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ARC11-716 1A14 CR-T12-S12MS CRB. FUSELAGE (R61850)

ALPHAO (5) = 9.000 BETA0 (4) = 4.130

SECTION (1) CRBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
120.000	-.0033	-.0387	.1247	.0888	-.2904	-.2603	-.2341	-.2750		
135.000			.3310	.2871	-.2038	-.2045	-.2732			
150.000	.0130	.0545	.3179	.3423	-.1037	-.2039	-.3224			
165.000	-.0039	.2603		-.0201	-.2010	-.3058				
180.000	-.0109	.0880	.2176	.3396						

ALPHAOX (5) = 7.980 BETA0X (5) = 6.220

SECTION (1) CRBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.1670	.1780	.2090	.2320	.3010	.3790	.4990	.5760
PHI															
1.2240	.6128	.0899	-.0246	-.0006	-.0389	-.1656									
20.000	.0176	.0616	.0412	-.0219	-.2231										
40.000	.0397	.0939	.0409	-.0798	-.2883										
55.000	.1326	.0631	.0177	-.1377	-.2344										
70.000	.1789	.0420	-.0209	-.1302	-.2086										
90.000	.1113	.1641	.0414	-.0826	-.1129										
120.000	.2367	.0837	-.0089	-.0310	-.1022										
140.000	.2150	.1603	.0644	-.0081	.1910										
150.000					.5431										
154.000					.3364										
162.000															
165.000															
169.000															
174.000															
180.000	1.8240	.4196	.2366	.1863	.1235	.0845	.7782	.6597							

SECTION (1) CRBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7810	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.0705	.0565	-.0042	-.3123	-.3632	.0000	-.2807			
48.000	.0886	.0855	.0221	-.1480	-.3334	-.2740	-.2646			
70.000	-.0095	-.2433	-.2397	.0065	-.1299	-.2266	-.2234			
90.000	-.0580	-.1759	-.1195	-.0622	-.1484	-.2189	-.2504			
105.000		.0035	-.0625	-.2086	-.2516	-.2761				
110.000										
128.000	.0131	-.0481	.2349	-.0097	-.3455	-.2609	-.3047			
135.000			.4939	.2676	-.3184	-.3468	-.3888			
150.000	-.0231	-.0189	.2336	.2411	-.1433	-.3023	-.4254			
162.000	-.0424		.1215		-.1137	-.2873	-.3533			
166.000	-.0422	-.0401	.1215	.2817						



C9

ARC11-716 1A14 04+712+S12M25 CRB. FUSELAGE (R61891)

ALPHAO1 (1) = -7.000 BETA0 (2) = -4.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0006	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	1.4430	.9028	.4741	.2987	.2240	.1926		.0086		.0347	.0095	.1109	-.1193	-.0534	-.0592
40.000		.5355	.3481	.2358	.2302	.0086		.0086		.0695		.0691	-.0427	-.0335	-.0141
60.000		.0854	.4219	.2991	.2713	.0670		.1199		.1860		.1327	-.1361	-.0397	-.0270
80.000		.7975	.5394	.3962	.3425	.1159		.2176		.1270		-.1286	-.1209	-.0475	.0182
100.000		.6397	.5959	.4336	.3683	.2176		.2913		.1636		-.0953	-.2696	-.0484	.0008
120.000	1.0560	.6307	.6221	.4907	.4123	.2913		.5469		.1590					
140.000		.8443	.6377	.5346	.5607										
160.000		.7612	.6268	.5768	.6370				.7215						
180.000								.9692							
200.000									.7658						
220.000															
240.000															
260.000															
280.000															
300.000	1.4430	.9004	.7181	.6294	.5768	.6379	1.1260	1.0490							
X/LB	.6930	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
40.000	-.0132	-.0112	-.1023	-.1603	-.5071	.0000	-.3241								
60.000	-.0317	-.0418	-.0153	-.0951	-.2665	-.4215	-.5154								
80.000	.0388	-.0216	-.0402	.1712	.1279	.0740	.0804								
100.000	.0229	.0245	.0690	.1721	.0751	.0224	.0674								
120.000		.2078	.1484	.0051	.0159	.0440									
140.000	.0289	.0431	.3156	.3180	-.0740	.0301	.0495								
160.000		.3116	.4497	.0360	.1371	.0836									
180.000	.0016	.0275	.3757	.4557	.2102	.2079	.0366								
200.000	-.0056	.3604		.3631	.2561	-.0292									
220.000	-.0116	-.0028	.3983	.4599											

ALPHAO1 (1) = -7.070 BETA0 (3) = .020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0006	.0230	.0470	.0700	.1120	.1990	.1670	.1760	.2030	.2320	.3010	.3790	.4990	.5760
PHI															
20.000	1.4080	.9137	.4829	.2991	.2398	.2320		.0224		.1191	-.0048	.0239	-.0359	-.1260	-.1382
40.000		.5140	.3221	.2391	.2391			-.0094		.0297		.0297			
60.000		.0129	.4686	.2970	.2386	.0629		.0629		.0429		-.0598	-.0141	-.0551	-.0374
80.000		.6778	.4379	.3330	.2699	.0792		.0442		.0442		.0442			
100.000		.7077	.4727	.3467	.2477	.1614		.1614		.0782		-.2358	-.1356	-.0853	-.0071
120.000		.6088	.7077	.5116	.3540	.2687		.2234		.0456		-.2340	-.2058	-.0959	-.0138



MRC11-716 1A14 01-112-31262 ORB. FUSELAGE (R016511)

ALPHAX 1) = -7.970 BETA0 (4) = 4.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PMI															
165.000															
169.000								.9780							
174.000						1.0680									
180.000	1.4480	.9382	.7988	.6441	.5002	.3388		.9988							
W/LB	.6530	.7300	.7810	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0480					
PMI															
.000															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHAX 1) = -7.980 BETA0 (5) = 0.180

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PMI															
20.000															
40.000															
55.000															
70.000															
90.000															
105.000															
120.000															
140.000															
150.000															
170.000															
180.000															
W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2050	.2320	.3010	.3790	.4990	.5760
PMI															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
105.000															
120.000															
140.000															
150.000															
170.000															
180.000															



(801831)

ORB. FUSELAGE

ALPHAO1 (2) = -3.960 BETA0 (1) = -0.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6630	.7300	.7610	.8230	.8680	.9230	.9630	1.0020	1.0210	1.0460
PHI										
120.000	-0.0203	-0.0723	.2766	.4154	-0.0699	-0.0773	.0442	-0.0040		
135.000		.2731	.2547	-1.1708	.1534	.1059				
150.000	-1.1107	-1.1081	.0919	.0071	.2293	.2973	.1093			
165.000	-1.1449		.1048		.4074	.3035	.0484			
180.000	-1.1574	-1.1297	.1965	.2965						

ALPHAO2 (2) = -3.960 BETA0 (2) = -4.030

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0090	.0230	.0470	.0700	.1120	.1590	.1870	.2030	.2320	.3010	.3790	.4990	.5760
PHI														
20.000	1.3660	.9600	.4459	.2261	.1697	.2055		-0.0042	.0197	-0.0329	-0.0039	.0144	-0.0705	-0.0661
40.000		.5622	.3010	.2130	.2259			-0.0250						
60.000		.7216	.5922	.2765	.2447			.0565	.0433	.0040	-0.0307	-0.0770	-0.0086	-0.0166
80.000		.9011	.5207	.3730	.2635			.0832	.0592					
100.000		.8178	.5999	.5975	.2746			.1761	.1271	.2216	-0.0486	-0.0422	-0.0346	
120.000		.9008	.8034	.3606	.3793	.2603		.2965	.1256	-1.1714	-0.0965	-0.0761	-0.0314	
140.000		.7711	.5629	.4471	.4439			.5247	.1475	-1.1215	-3.364	-0.0940	-0.0512	
160.000		.6632	.5650	.4666	.3069				.1149	-1.0005	-0.3191	-0.2160	-1.3001	-0.0719
180.000								.6654						
191.000								.9307						
196.000									.7431					
198.000										-1.1705	-0.2663	-0.2034	-1.1428	-0.0949
199.000								1.0070						
199.000	1.3660	.8658	.6183	.5312	.4704	.5087	1.0730	.9207						
199.000		.6880	.7300	.7610	.8230	.8620	.9230	.9630	1.0020	1.0210	1.0460			

PHI

105.000														
110.000														
120.000	-0.0096	-0.0237	-0.0320	-0.0683	-0.2041	.0000	-0.2633							
135.000	-0.0320	-0.0239	.0908	.0026	-0.2333	-0.4049	-0.4919							
150.000	-0.0098	-0.0699	-1.1133	.0473	.0640	.0135	.0132							
165.000	.0113	-0.0309	-0.0520	.1105	.0035	-0.0086	-0.0183							
180.000			.1064	.0673	-0.0622	-0.0962	-0.0336							
190.000	-0.0602	-0.0230	.2674	.3069	-1.0643	-0.5462	-0.0683							
195.000			.4117	.3557	-0.0276	.0970	.0354							
198.000	-0.0431	-0.0209	.2936	.3365	.1317	.1324	-0.0066							
198.000	-0.0466		.3067		.3108	.1706	-0.0729							
199.000	-0.0466	-0.0373	.3804	.3617										



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

(R01851)

CRG. FUELAGE

ARC11-716 1A14 01-712-SIDMS

ALPHAO (2) = -3.950 BETA0 (3) = .040

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0020	.0040	.0470	.0700	.1120	.1900	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PWT	.000	1.4460	.9668	.4614	.2006	.1992	.1759	-.0064	-.1575	-.1604	.1207	-.0362	-.1241	-.1466	
20.000				.9056	.2609	.2113	.1940	-.0529	-.0165						
40.000				.6122	.3270	.2441	.2044	.0132	-.0160	-.0317	-.0060	.0109	-.0465	-.0471	
50.000				.6374	.4004	.2966	.1940	.0648	-.0067						
70.000				.6762	.4275	.3085	.1975	.1254	.0602	-.2859	-.1301	-.1173	-.0469		
90.000			.6040	.6624	.4434	.2929	.2069	.2015	.0367	-.2475	-.2965	-.1345	-.0469		
120.000			.6621	.6663	.3664	.3944	.4425	.4425	.0453	-.2030	-.4232	-.1611	-.0713		
140.000									-.0550						
150.000			.6660	.5391	.4622	.4632		.6071	-.1924	-.3313	-.2236	-.1650	-.0637		
170.000								.6603							
190.000								.6657	-.1604	-.2861	-.1767	-.1351	-.0536		
160.000															
174.000								.9645							
190.000			1.4460	.9668	.6676	.5915	.4636	.9653	-.3337	-.3146	-.1343	-.1432	-.0669		
W/LB	.6650	.7500	.7610	.6250	.6620	.6250	.9650	1.0210	1.0210	1.0460					

ALPHAO (2) = -3.970 BETA0 (4) = 4.080

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0020	.0040	.0470	.0700	.1120	.1900	.1670	.1760	.2050	.2920	.3010	.3790	.4990	.5760
PWT	.000	1.4566	.9439	.3661	.1366	.1810	.1564	.0603	-.1692	-.0226	.0553	-.0676	-.1866	-.1933	
20.000				.3637	.1632	.1691	.1453	-.0426	-.0606						
40.000				.4460	.2106	.1692	.1419	-.0409	-.0463	-.0669	-.0013	-.0354	-.1236	-.1336	
50.000				.4914	.2460	.1900	.1019	.0194	-.0513						
70.000				.5232	.2622	.1916	.0691	.0759	.0165	-.3323	-.2456	-.1666	-.0679		
90.000			.6619	.5011	.3170	.1914	.1222	.1376	-.0375	-.3164	-.3426	-.1746	-.0679		

06181511

COR. PURCHASE

ARC11-716 1A14 CL-716-818185

ALPHAO1 E1 = -3.970 BETA0 (4) = 4.000

SECTION (1)CORRITER PURCHASE DEPENDONT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1390	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760
PWT															
100.000			.5757	.3013	.2908	.2855		.3008		-.0565	-.2721	-.4643	-.2712	-.1233	
140.000										-.2155					
150.000			.3006	.4014	.3791	.4026				-.2409	-.3262	-.2045	-.2034	-.1346	
191.000								.4829							
194.000								.7740							
198.000									.5984						
199.000										-.1992	-.3400	-.1829	-.1726	-.1355	
174.000															
190.000	1.4680	.6006	.6277	.5420	.4693	.4829	1.0000	.9426		-.3076	-.3033	-.1813	-.1500	-.1094	
W/LB	.6688	.7800	.7810	.6200	.6620	.9230	.9480	1.0020	1.0210	1.0480					

PWT

60.000	-.0769	-.0604	-.0656	-.2175	-.3212	.0000	-.3006			-.1076	-.1946				
70.000	-.1027	-.0622	-.0432	-.1212	-.3085	-.3029	-.3400			.0000	.0000				
80.000	-.0941	-.1033	-.0447	.0761	.0166	-.0302	-.0333								
90.000	-.0223	-.0768	.0215	.0822	-.0439	-.0645	-.0594								
106.000			.0950	.0146	-.1076	-.0877	-.0761								
130.000															
180.000	-.0497	-.0907	.0299	.0146	-.2915	-.1622	-.1534								
194.000			.3387	.3035	-.1825	-.1653	-.2102								
199.000	-.0984	-.0402	.3322	.4904	.0363	-.0645	-.1942								
199.000	-.0229		.3230		.1446	-.0297	-.2241								
190.000	-.0204	-.0448	.3234	.6123											

ALPHAO1 E1 = -4.000 BETA0 (5) = 6.130

SECTION (1)CORRITER PURCHASE DEPENDONT VARIABLE CP

W/LB	.0000	.0000	.0200	.0470	.0700	.1120	.1390	.1670	.1790	.2030	.2320	.3010	.3790	.4990	.5760
PWT															
90.000	1.3070	.8476	.2114	.0236	.0307	.1904		.0470		.0122	.0241	-.0502	-.1033	-.2440	-.2709
98.000			.2444	.0236	.0323	.1302		.0041		-.0835					
48.000			.2337	.0755	.0323	.0691		-.0722		-.0803	-.0684	-.0413	-.1341	-.2013	-.1863
99.000			.2912	.0967	.0323	.0224		.0262		-.0794					
70.000			.3546	.1544	.0730	.0278		.0502		-.0356	-.3690	-.2635	-.2274	-.1176	
94.000		.3384	.3826	.1783	.0442	-.0224		.0643		-.0939	-.3699	-.3645	-.1946	-.1157	
100.000			.4330	.2983	.1901	.1233		.1614		-.1862	-.3596	-.3031	-.3622	-.1672	
148.000										-.3149					
150.000			.4697	.4000	.3013	.2300				-.2979	-.3911	-.2084	-.2360	-.2442	
194.000								.6786							
194.000															
194.000															
192.000															

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(R181831)

ORB. FUELAGE

ALPHAOI 21 = -4.000 BETAIO (21) = 0.130

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1300	.1670	.1700	.2000	.2300	.3010	.3700	.4000	.5700
PWT															
100.000															
100.000															
174.000															
100.000	1.3070	.7823	.9084	.4791	.4112	.3626	.9390	.6430							
W/LB	.0000	.7800	.7010	.0020	.0020	.0020	.9000	1.0000	1.0000	1.0400					

PWT															
.000	-.1002	-.0740	-.0214	-.0008	-.0003	.0000	-.0000	-.0000	-.1723	-.0071					
40.000	-.1115	-.0041	-.0043	-.1006	-.0005	-.0102	-.0102	-.0102	.0000	.0000					
70.000	-.0974	-.1029	-.0025	.0020	-.0070	-.0005	-.0721								
90.000	-.0400	-.1001	-.0141	-.0017	-.0000	-.0037	-.0053								
100.000			.0002	-.0015	-.1400	-.1191	-.1195								
130.000															
180.000	-.0701	-.0040	-.1007	-.1040	-.0003	-.0410	-.0291	-.0291	-.0291	-.0291					
130.000			.1003	.0700	-.0001	.0003	-.0003	-.0003	-.0003	-.0003					
100.000	-.1002	-.1102	.0234	.4125	-.0005	-.1010	-.0257								
100.000	-.1004		.0100												
100.000	-.1702	-.1000	.0000	.0000	.0000	-.1017	-.0000								

ALPHAOI 20 = -.070 BETAIO (1) = -.0100

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1300	.1670	.1700	.2000	.2300	.3010	.3700	.4000	.5700
PWT															
100.000															
100.000															
174.000															
100.000	1.4000	.9000	.4000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
W/LB	.0000	.0000	.0020	.0470	.0700	.1120	.1300	.1670	.1700	.2000	.2300	.3010	.3700	.4000	.5700

ORIGINAL PAGE IS OF POOR QUALITY

081821)

CRS. FUEL/BLAZE

ALPHAO1 B = -.376 BETAO (1) = -0.100

SECTION (1) CRIBBETTER FUEL/BLAZE DEPENDENT VARIABLE CP

W/L/S	.0000	.7500	.7510	.0230	.0000	.6230	.9000	1.0000	1.0210	1.0400
PHI										
.000	.0045	.0075	.1975	.0391	-.4008	.0000	-.3091		-.1190	-.1259
20.000	.1008	.1204	.1181	.3227	-.3998	-.3999	-.9114		.0000	.0077
40.000	-.0134	-.1042	-.1379	-.1408	.0279	-.0271	-.0002			
60.000	.0091	-.0090	-.1397	.0923	-.0414	-.0423	-.0942			
80.000			-.1301	.0000	-.0085	-.1367	-.1075			
100.000										-.1391
120.000	-.1400	-.1694	.1793	.4000	-.1091	-.1344	-.0771			-.0964
135.000			.1294	.1209	-.2479	.0756	.0342			
150.000	-.1088	-.1808	.0246	.0113	-.1109	.2406	.0347			
165.000	-.2101		.1309		.3447	.2394	.0216			
180.000	-.0210	-.1081	.1310	.2119						

ALPHAO1 B = -.322 BETAO (2) = -0.010

SECTION (1) CRIBBETTER FUEL/BLAZE DEPENDENT VARIABLE CP

W/L/S	.0000	.0000	.0000	.0470	.0700	.1100	.1900	.1670	.1700	.2030	.2300	.3010	.3790	.4000	.5700
PHI															
.000	1.4750	1.0000	.0340	1.4091	0.7502	1.1930		-.0140	.0047	-.0037	-.0506	-.0301	-.0772	-.0031	
20.000			.0912	2.4333	1.3302	2.0300		-.0404	-.0433	-.0002	-.0378	.0971	-.0039	.0302	.0231
40.000			.7006	3.0112	2.2230	1.6110		.0200	-.0002	.0227	.1464	-.2323	-.1040	-.0415	-.0737
60.000			.0127	.5032	3.4001	1.8911		.1843	.0227	.1464	-.2323	-.1040	-.0415	-.0737	
80.000			.0104	.3339	3.0114	1.9202		.1179	.1913	.1913	-.1704	-.2036	-.0940	-.0871	
100.000		.0711	.7735	3.4091	3.9911	2.2017		.2110	.1913	.1913	-.1704	-.2036	-.0940	-.0871	
120.000			.0000	.4006	3.2017	3.106		.4033	.1704	.1704	-.1474	-.3447	-.2174	-.1037	
140.000															
160.000			.0770	.4390	3.610	3.423									
180.000									.0449						
195.000															
200.000									.9047						
220.000															
240.000															
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															
520.000															
540.000															
560.000															
580.000															
600.000															
620.000															
640.000															
660.000															
680.000															
700.000															
720.000															
740.000															
760.000															
780.000															
800.000															
820.000															
840.000															
860.000															
880.000															
900.000															
920.000															
940.000															
960.000															
980.000															
1000.000															

W/L/S	.0000	.7500	.7510	.0230	.0000	.6230	.9000	1.0000	1.0210	1.0400
PHI										
.000	.0002	.0005	.1372	.0308	-.5097	.0000	-.0012		-.1236	-.1310
20.000	.0472	.0916	.1003	.2323	-.2330	-.3900	-.4974		.0000	.0000
40.000	-.0002	-.1107	-.1006	-.0337	.0210	-.0440	-.0300			
60.000	-.0402	-.0010	-.1306	.0037	-.0023	-.0300	-.0035			
80.000			-.0043	.0027	-.0070	-.1400	-.1003			
100.000										-.1400



ARC11-716 IAL14 CIVILIAN-SHINES CRB. PURCHASE (801891)

ALPHAO1 3) = -.300 SETAO (2) = -4.010

SECTION (1) CRIBITER PURCHASE DEPENDOR VARIABLE CP

I/L	.0000	.7000	.7010	.0020	.0000	.0020	.0000	1.0000	1.0010	1.0000
PMT										
100.000	-.0012	-.0040	.0000	.0121	-.1297	-.1000	-.0001	-.0002		
150.000		.3445	.2701	-.1270	.0300	-.0035				
190.000	-.0021	-.0001	.2400	.0030	.1137	-.0471				
100.000	-.0010	-.0010	.0015	.2571	.1000	-.0004				
100.000	-.0740	-.0014	.2001	.3000						

ALPHAO1 3) = -.300 SETAO (3) = .000

SECTION (1) CRIBITER PURCHASE DEPENDOR VARIABLE CP

I/L	.0000	.0000	.0020	.0470	.0700	.1100	.1000	.1000	.0070	.2000	.2000	.2010	.3700	.4000	.0700
PMT															
.000	1.0000	1.0000	.4001	.1041	.1040	.1000	-.0005	-.0005	-.1902	-.2300	-.1073	-.0914	-.1001	-.1141	
20.000		.4000	.2132	.1900	.1075		.0750		-.0914						
40.000		.0072	.0002	.0002	.1000		-.0103		-.0367	-.1110	-.0100	-.0070	-.0710	-.0000	
60.000		.0000	.0000	.0000	.1400		.0041		-.0000						
K.000			.0000	.0000	.2770	.1011	.0044		.0745	.2000	-.2000	-.1270	-.0011		
90.000		.7702	.0400	.0000	.2000	.1000	.0000		.0000	-.2000	-.2000	-.1947	-.0000		
100.000			.0000	.0000	.3000	.2000	.4104		.0270	-.2000	-.4000	-.2000	-.0014		
100.000			.0000	.0000	.3000	.3000			-.0501						
100.000			.0000	.0000	.3000	.3000			-.0217	-.3700	-.2700	-.1945	-.1140		
100.000								.0770							
100.000									.0407						
100.000									.0400						
100.000										-.2000	-.3000	-.1945	-.1417		
100.000										-.3700	-.3000	-.1000	-.1470		
100.000															
100.000															

ALPHAO1 3) = -.300 SETAO (3) = .000

SECTION (1) CRIBITER PURCHASE DEPENDOR VARIABLE CP

I/L	.0000	.7000	.7010	.0020	.0000	.0020	.0000	1.0000	1.0010	1.0000
PMT										
.000	.0000	.0707	.0000	-.0014	-.0010	.0000	-.0070			
40.000	-.1010	.0000	.0000	.0000	-.4144	-.0000				
70.000	-.0000	-.1000	-.0000	-.0110	-.0001	-.0000				
90.000	-.0000	-.0043	-.0000	.0077	-.0000	-.0000				
100.000		.0070	.0070	-.1001	-.1042	-.1014				
110.000			.1000	.1012	-.1000	-.1010				
130.000			.0001	.0043	-.0000	-.0000				
150.000		-.0040	.0077	.0070	.0000	-.1010				
100.000		-.0041	.0000	.0000	.0070	.0070				
100.000		-.0041	-.0000	.0000	.0070	.0070				

ARC11-716 1A16 CA-712-212MS (081851)

ALPHAO 3) = -.488 BETA0 (4) = 4.090

SECTION (1) COBITER P.ARLAGE DEPENDONT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0725	.1120	.1700	.2030	.2320	.3010	.3790	.4990	.5760
PHI													
00.000	1.4710	0.406	3.787	0.992	1.913	1219	.0093	-.1796	-.1992	-.0479	-.0772	-.1964	-.1387
20.000			3.033	1.371	1.330	1.174	-.0623	-.0793					
40.000			4.307	1.961	1.314	1.036	-.0729	-.0938	-.1433	-.1302	-.0973	-.1120	-.1143
60.000			4.772	2.203	1.610	0.834	-.0160	-.0787					
80.000			5.082	2.338	1.644	0.545	0.149	-.0011	-.3322	-.3046	-.1946	-.1036	
100.000			4.966	2.093	1.917	0.975	1.093	-.0319	-.3129	-.3443	-.2377	-.1026	
120.000			5.303	3.437	2.284	2.010	3.194	-.0382	-.2940	-.4691	-.2767	-.1143	
140.000								-.2179					
160.000								-.2698	-.3792	-.2483	-.2413	-.1790	
180.000							.7911	.4899					
200.000								.3076					
220.000								-.2208	-.3766	-.2120	-.2131	-.1706	
240.000													
260.000													
280.000													
300.000													
320.000													
340.000													
360.000													
380.000													
400.000													
420.000													
440.000													
460.000													
480.000													
500.000													
520.000													
540.000													
560.000													
580.000													
600.000													
620.000													
640.000													
660.000													
680.000													
700.000													
720.000													
740.000													
760.000													
780.000													
800.000													
820.000													
840.000													
860.000													
880.000													
900.000													
920.000													
940.000													
960.000													
980.000													
1000.000													

ALPHAO 2) = -.488 BETA0 (2) = 0.140

SECTION (1) COBITER P.ARLAGE DEPENDONT VARIABLE CP

W/LB	.0000	.0090	.0230	.0470	.0725	.1120	.1700	.2030	.2320	.3010	.3790	.4990	.5760
PHI													
00.000	1.3040	0.491	2.779	-.0376	-.0283	2.103	.0138	-.0136	-.0617	-.0997	-.1110	-.2461	-.2291
20.000			1.896	-.0183	0.487	1.464	-.0522	-.1499					
40.000			1.720	0.0910	0.699	0.497	-.1279	-.1439	-.1770	-.0334	-.0933	-.2469	-.1357
60.000			2.290	0.631	0.932	-.0117	-.0753	-.1140					
80.000			3.000	1.001	0.413	-.0083	-.0223	-.0610	-.3793	-.3397	-.2372	-.1303	
100.000			3.146	1.323	0.426	-.0014	0.464	-.0496	-.3796	-.4093	-.2372	-.1243	



(881831)

CRG. FUELAGE

MIC11-716 1A14 01+712+312M25

ALPHA(3) = -.400 BETA(5) = 6.140

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1500	.1670	.1790	.2050	.2220	.3010	.3790	.4990	.9700
PHI															
120.000			.3967	.2295	.1259	.0756	.2032								
140.000															
150.000			.4050	.3448	.2492	.1672									
151.000															
154.000															
162.000															
169.000															
174.000															
180.000	1.3040	.6651	.4763	.3834	.3328	.2907	.9376								
X/LB	.6930	.7300	.7810	.8250	.8620	.9230	.9430	1.0020	1.0210	1.0460					

PHI

.000															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

ALPHA(4) = 4.110 BETA(1) = -6.070

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1500	.1670	.1790	.2050	.2220	.3010	.3790	.4990	.9700
PHI															
.000			.4753	.1848	.0252	.1228									
20.000			.6161	.5110	.1131	.0790									
40.000			.8751	.4760	.2983	.1866									
55.000			.9480	.6460	.4430	.2501									
70.000			.9474	.6514	.4412	.3051									
90.000	1.1000		.9429	.6508	.4062	.3124									
120.000			.8875	.4433	.3254	.2965									
140.000															
150.000			.4553	.3075	.2329	.2437									
151.000															
154.000															
162.000															

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ARC11-718 1A14 O-TIE-SIZES CRB. FUELAGE (R21851)

ALPHAO (1) = 4.118 BETAO (1) = -8.070

SECTION (1) CRIBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1990	.2850	.3010	.3790	.4990	.5760
PHI												
165.000												
149.000												
174.000												
180.000	1.3810	.0701	.3338	.2811	.2330	.1963	.0344	.7620				
W/LB	.0000	.7500	.7610	.6230	.6620	.9230	.9630	1.0020	1.0210	1.0480		

PHI												
40.000	.1127	.1932	.2096	.0656	-.4823	.0000	-.3198					
70.000	.1470	.2187	.4120	.3779	-.2039	-.4038	-.5068					
90.000	-.0404	-.1401	-.2100	-.2337	-.0262	-.0632						
105.000	-.0160	-.1822	-.1932	.0115	-.0882	-.1150	-.1447					
110.000												
120.000	-.2368	-.2973	.0420	.3626	-.1376	-.1761	-.1395					
135.000												
150.000	-.2360	-.2547	.0685	.0101	.0149	.0636	-.0832					
165.000	-.2413	.0947		.2483	.2245	.0248						
180.000	-.1769	-.0226	.1054	.1793								

ALPHAO (2) = 4.103 BETAO (2) = -3.960

SECTION (1) CRIBITER FUELAGE DEPENDENT VARIABLE CP

W/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1790	.2560	.3010	.3790	.4990	.5760
PHI												
20.000	1.4570	1.0270	.6043	.1041	.0326	.2161	-.0332	-.0392	-.0977	-.2648	-.0892	-.0096
40.000												
55.000												
70.000												
90.000												
100.000												
140.000												
150.000												
175.000												
180.000												

PHI												
20.000												
40.000												
55.000												
70.000												
90.000												
100.000												
140.000												
150.000												
175.000												
180.000												



(R21851)

ORG. FUELAGE

ALPHAX 4) = 4.100 BETA0 (Z) = -3.900

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

1/LB	.0000	.7000	.7010	.0230	.0020	.0020	.0020	.0020	.0020	1.0210	1.0460
PWT											
000	.1148	.1015	.1974	.0943	-.4808	.0000	-.2065			-.0971	-.1176
40.000	-.1028	.1990	.2060	.2061	-.2014	-.2065	-.2100			.0000	.0000
70.000	-.0503	-.1440	-.2102	-.1038	-.0864	-.0863	-.0823				
90.000	-.0284	-.1353	-.1922	.0243	-.1082	-.1276	-.1313				
100.000		-.1310	.0248	-.1139	-.2021	-.1667					
110.000											
120.000	-.1882	-.1802	.1446	.3379	-.1364	-.1760	-.1993				
130.000			.2313	.2276	-.2003	-.0039	-.0421				
140.000	-.0888	-.0443	.2273	.1702	.0281	.0709	-.0900				
150.000	-.0788	-.2028		.1920	.0603	-.1160					
160.000	-.0848	.0978	.1773	.2733							

ALPHAX 4) = 4.100 BETA0 (Z) = .000

SECTION (1) ORBITER FUELAGE DEPENDENT VARIABLE CP

1/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1760	.2020	.2320	.3010	.3790	.4090	.3760
PWT															
000	1.4610	1.0050	.3900	.0716	.1223	.1468		.0185		-.1193	-.2437	-.3016	.0063	-.0760	.0006
20.000		.4804	.1410	.1106	.1612			-.0802		-.0737					
40.000		.3906	.2437	.1613	.1836			-.0365		-.0773	-.1435	-.1570	-.0230	-.0446	-.0213
50.000		.6419	.3496	.2337	.1810			.0362		-.1108					
70.000		.6401	.3703	.2333	.1037			.0132		.0336	-.3013	-.2607	-.1361	-.1082	
90.000		.7478	.6123	.3879	.2249	.1061		.0633		.0623	-.2627	-.3232	-.2408	-.0827	
100.000		.3608	.3343	.2331	.2001			.4266		.0232	-.2370	-.4216	-.2362	-.1316	
140.000										-.0291					
150.000		.4865	.3703	.2965	.2276				.2671	-.2390	-.4208	-.3337	-.2393	-.1334	
151.000								.6331							
156.000									.6242						
160.000										-.2774	-.3919	-.2930	-.2391	-.1681	
169.000															
174.000															
180.000	1.4610	.0874	.4332	.3884	.3124	.2447		.9030				-.4334	-.4001	-.2440	-.2391
190.000	.0000	.7000	.7010	.0230	.0020	.0020	.0020	1.0020	1.0210	1.0460					

1/LB

PWT

000	.1837	.1310	.0874	-.0136	-.4647	.0000	-.2910			-.1440	-.1333				
40.000	.0823	.1370	.1461	.0837	-.2301	-.4120	-.4329			.0000	.0000				
70.000	-.0784	-.1771	-.2102	-.0829	-.0478	-.1039	-.1075								
90.000	-.0413	-.1414	-.1421	.0065	-.1364	-.1330	-.1393								
100.000		.0433	.0076	-.1364	-.2247	-.1607									

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ARC11-716 IAS14 OL*712-812MS CRG. PUSLAGE (R01855)

ALPHAO1 4) = 4.100 BETA0 (3) = .000

SECTION (1) ORBITTER PUSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.7500	.7610	.6250	.6620	.9250	.9630	1.0020	1.0210	1.0400
PW1										
120.000	-.0414	-.0427	.1681	.2275	-.1979	-.1796	-.1876	-.1876	-.1754	
135.000			.3519	.2924	-.1353	-.0599	-.1129			
150.000	-.0204	.0721	.2185	.2757	.0066	-.0355	-.1701			
165.000	-.0248		.2398		.1157	-.0221	-.2074			
180.000	-.0240	.0406	.2537	.3454						

ALPHAO1 4) = 4.100 BETA0 (4) = 4.130

SECTION (1) ORBITTER PUSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1360	.1670	.1760	.2050	.2320	.3010	.3790	.4990	.5760
PW1															
.000	1.4350	.9488	.2847	.0439	.1747	.1088		.0682		-.1200	-.2153	-.1696	-.0353	-.0479	-.0166
20.000			.3042	.0901	.1591	.0603		-.1093		-.1191					
40.000			.3964	.1539	.1264	.0277		-.1219		-.1550	-.2139	-.1497	-.0487	-.0966	-.0302
55.000			.4413	.2093	.1366	.0279		-.0353		-.1365					
70.000			.4908	.2253	.1337	.0332		-.0453		-.0282	-.3421	-.3356	-.1933	-.1303	
90.000		.5001	.4760	.2464	.1136	.0368		.0401		-.0105	-.3205	-.3723	-.2974	-.1140	
120.000		.4701	.2750	.1693	.1417			.3184		-.0647	-.3347	-.4817	-.3096	-.1223	
140.000										-.2328					
150.000		.4402	.3408	.2596	.1693				.4524	-.3120	-.4439	-.3272	-.2745	-.1854	
151.000								.7814							
154.000									.5401						
162.000										-.2936	-.4268	-.2700	-.2653	-.2104	
165.000							.9229								
169.000															
174.000															
180.000	1.4350	.7300	.4427	.3481	.2920	.2221		.8896		-.4054	-.4002	-.2966	-.2357	-.1800	

ALPHAO1 4) = 4.100 BETA0 (3) = .000

SECTION (1) ORBITTER PUSLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.7500	.7610	.6250	.6620	.9250	.9630	1.0020	1.0210	1.0400
PW1										
.000	.0462	.0746	.0398	-.1613	-.4081	.0000	-.3066		-.0775	-.1673
40.000	.0469	.0748	.0414	-.0764	-.3032	-.2968	-.3308		.0000	.0000
70.000	-.0481	-.1749	-.0720	-.0638	-.1212	-.1349				
90.000	-.0295	-.1222	-.0263	-.0170	-.1484	-.1433	-.1807			
105.000		.0483	-.0179	-.1933	-.2050	-.1727				
110.000										
120.000	-.0179	-.0371	.1677	.0586	-.2550	-.2165	-.2369	-.2378		
135.000			.3055	.3887	-.1797	-.1554	-.2016	-.2190		
150.000	-.0000	.0432	.2228	.2690	-.0225	-.1153	-.2363			
165.000	-.0443	.1903	.0665	-.0690	-.2008					
180.000	-.0406	.0931	.1633	.2681						



ARC11-716 1A14 OR-TI2-SIZES

CRB. FUSELAGE

0001091

ALPHAK 4) = 4.000 BETA (5) = 0.100

SECTION (1) CRITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2920	.3010	.3790	.4090	.5700
PW1	.000	1.3000	.7070	1.000	-.0735	-.0331	.1190	-.0304	-.0530	-.1000	-.1031	-.1396	-.1641	-.1076	
20.000				.0036	-.0187	.1047	.0000	-.0909	-.1140						
40.000				.0003	-.0074	.0093	.0230	-.1304	-.1671	-.2417	-.0482	-.1403	-.0904	-.0081	
50.000				.1297	-.0776	.0032	-.0421	-.1109	-.1633						
70.000				.2040	-.0030	.0401	-.0440	-.0942	-.0927	-.3701	-.3799	-.2533	-.1195		
90.000		.2330		.2004	-.1129	.0216	-.0099	-.0091	-.0637	-.3797	-.4175	-.2949	-.1200		
120.000				.2940	-.1026	.0002	.0404	.1992	-.1638	-.3917	-.5410	-.3638	-.1450		
140.000									-.3313						
150.000				.2701	.2710	.1700	.0001		-.3477	-.4025	-.3093	-.3234	-.2002		
150.000								.2992							
150.000								.0003							
160.000								.4002							
160.000									-.3040	-.4190	-.3021	-.2913	-.2053		
160.000															
174.000							.0076								
180.000		1.3000	.3440	.3004	.3004	.2424	.1013	.7700	-.3044	-.4171	-.3237	-.2913	-.2436		

ALPHAK 5) = 0.010 BETA (1) = -0.020

SECTION (1) CRITTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0250	.0470	.0700	.1120	.1990	.1670	.1700	.2050	.2920	.3010	.3790	.4090	.5700
PW1	.000	1.3000	1.0200	.4995	1.443	.0117	.0705	-.0440	-.0510	-.1324	-.0730	.0711	.0230	.0711	
20.000				.0240	.2001	.1172	-.0026	-.1103	-.1190						
40.000				.0001	.0144	.0074	.0074	-.0479	-.0500	-.0570	.0500	.1204	.1434	.1703	
50.000				.0703	.0000	.4732	.2330	.0071	-.0090						
70.000				.0316	.0330	.4470	.2477	.0027	.0443	-.1010	-.0207	.0304	-.0300		
90.000		1.0000	.0272	.0030	.3005	.2334		.1201	.1000	-.1421	-.0090	-.0232	-.0547		

MRC11-716 1A14 04-V112-S12MES

ORB. FUSSELAGE

(RB1851)

ALPHAX 5) = 0.010 BETMO (1) = -0.020

SECTION (1) ORBITER FUSSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1390	.1670	.1790	.2050	.2320	.3010	.3790	.4990	.5760
PW1															
120.000		.0379	.3615	.2300	.1901			.2686		.1877	-.1125	-.3255	-.3331	-.4223	
140.000										.1547					
150.000		.3618	.2247	.1684	.1528					.0475	-.4835	-.4335	-.3573	-.2720	
171.000								.6884							
176.000								.9485							
182.000									.7016						
185.000										-.3628	-.4336	-.4287	-.3235	-.2651	
189.000								.9453							
174.000						.6131									
190.000	1.3810	.6012	.2804	.1921	.1307	.1171		.7173		-.4037	-.4711	-.3720	-.3120	-.2622	
X/LB	.6888	.7300	.7910	.8230	.8620	.9230	.9430	1.0020	1.0210	1.0400					

ALPHAX 9) = 0.010 BETMO (2) = -4.010

SECTION (1) ORBITER FUSSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1390	.1670	.1790	.2050	.2320	.3010	.3790	.4990	.5760
PW1															
40.000	.1037	.2075	.1851	.0395	-.4832	.0000	-.2776			-.0364	-.0699				
60.000	.1608	.3391	.3846	.3573	-.2238	-.4197	-.4917			.0000	.0000				
70.000	-.0466	-.1647	-.2484	-.2967	-.1173	-.1021	-.1197								
80.000	-.0489	-.1323	-.2421	-.0944	-.1305	-.1600	-.2179								
105.000															
110.000															
120.000	-.4984	-.3895	-.1412	.2951	-.1715	-.2188	-.2089	-.2813							
126.000								-.1931							
130.000															
135.000	-.2988	-.1182	-.0482	-.0148	-.0734	-.1038	-.2448								
145.000	-.1793		.0134		.1187	.1329	-.0423								
190.000	-.1267	-.0684	.0450	.1968											

ALPHAX 9) = 0.010 BETMO (2) = -4.010

SECTION (1) ORBITER FUSSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0000	.0230	.0470	.0700	.1120	.1390	.1670	.1790	.2050	.2320	.3010	.3790	.4990	.5760
PW1															
80.000	1.4130	1.0530	.4212	.1208	.0687	.1707		-.0434		-.0785	-.1593	-.1293	.0144	.0096	.0641
90.000								-.1379		-.1096					
40.000								-.0496		-.0721	-.0939	.0067	.1067	.0934	.1033
99.000								.0825		-.0971					
70.000								.0228		-.0217	-.2811	-.1722	-.0415	-.0673	
90.000								.0774		.1379	-.2119	-.2504	-.1084	-.1036	
120.000		.9136	.7078	.4964	.3077	.1902		.4067		.1150	-.1651	-.3677	-.3418	-.2688	
140.000										.0670					
150.000															
191.000															
196.000															
182.000															



(R01651)

CRB. FUSELAGE

ARC11-716 1A14 CR+T12+S12E25

ALPHAX 5) = 6.020 BETA0 (3) = .030

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.6530	.7300	.7910	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480
PHI										
.000	.1487	.1641	.1236	.0074	-.4241	.0000	.0000	-.2637		
40.000	.1259	.1677	.1797	.1021	-.2736	-.4155	-.4036			
70.000	-.0962	-.2177	-.2463	-.1882	-.1287	-.1392	-.1479			
90.000	-.0703	-.1715	-.1917	-.0590	-.1615	-.2030	-.2082			
103.000		.0080	-.0888	-.1730	-.2375	-.2444				
110.000										-.2333
120.000	-.1010	-.0846	.0937	.2346	-.2071	-.2039	-.2163			-.2411
135.000				.2292	.2396	-.1535	-.0612			-.1424
150.000	-.0216	.0801	.2408	.2963	-.0237	-.0630	-.1936			
165.000	-.0129	.2363		.0971	-.0793	-.2071				
180.000	-.0129	.0232	.2403	.4048						

ALPHAX 5) = 6.010 BETA0 (4) = 4.130

SECTION (1) CRIBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0080	.0230	.0470	.0700	.1120	.1390	.1670	.1780	.2030	.2320	.3010	.3780	.4990	.5780
PHI															
.000	1.4130	.6081	.1111	.1824	.1480	.1327		.0347							
20.000		.2001	.1832	.1580	.0663			-.1499							
40.000		.3638	.2083	.1746	.0367			-.1535							
55.000		.4445	.2371	.1787	.0121			-.0743							
70.000		.4388	.2319	.1474	.0236			-.0770							
90.000		.4534	.4486	.2430	.1044	.0314		-.0426							
120.000		.4283	.2441	.1320	.1060			.3098							
140.000															
160.000		.3765	.2851	.1868	.1206										
171.000								.7463							
176.000															
182.000															
188.000															
194.000															
190.000	1.4130	.5484	.3674	.3068	.2330	.1567									
X/LB	.6930	.7300	.7910	.8230	.8820	.9230	.9630	1.0020	1.0210	1.0480					
PHI															
.005	.1119	.1191	.0537	-.1541	-.3698	.0000	-.3017								
40.000	.1887	.1171	.0725	-.0606	-.3016	-.3042	-.3102								
70.000	-.0891	-.2187	-.2326	-.1234	-.1070	-.1542	-.1884								
90.000	-.0383	-.1353	-.1316	-.0499	-.1913	-.1849	-.1917								
109.000		.0296	-.0995	-.2080	-.2902	-.2914									
116.000															



ARC11-716 1A14 01-T12-812ES-AT11 PUB-RUDPL BASE

(R8-17) (05 OCT 75)

REFERENCE DATA

WREP = 2.4210 IN. FT. WREP = 29.9000 INCHES
 LREP = 30.7000 INCHES WREP = .0000 INCHES
 WREP = 30.7000 INCHES WREP = .0000 INCHES
 SCALE = .0000 SCALE

WMOI (1) = .000 ALPHAOI 1) = -0.170

SECTION (1) PUS. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2000 -.2000 -.2070 -.7330 -.0640

WMOI (1) = .000 ALPHAOI 2) = -4.140

SECTION (1) PUS. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2070 -.2700 -.2000 -.7007 -.0400

WMOI (1) = .000 ALPHAOI 3) = -.250

SECTION (1) PUS. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2070 -.2000 -.2700 -.6700 -.0001

WMOI (1) = .000 ALPHAOI 4) = 3.630

SECTION (1) PUS. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2000 -.2000 -.2700 -.2010 -.2070

PARAMETRIC DATA

DETAC = .000 ELEVON = .000
 RUDDER = .000 SPOBRK = .000

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DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ASC11-716 1A14 OBTIENS-10111 PUB-RUPFL BASE (RESC17)

WMO1 (1) = .000 ALPHA(X) 1) = 0.000

SECTION (1) PLS. + RFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1000 -.2000 -.3000 -.4000

WMO1 (2) = .977 ALPHA(X) 1) = -7.000

SECTION (1) PLS. + RFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3000 -.3000 -.3000 -.3000

WMO1 (2) = .976 ALPHA(X) 2) = -3.000

SECTION (1) PLS. + RFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3075 -.3075 -.3075 -.3075

WMO1 (2) = .977 ALPHA(X) 3) = .000

SECTION (1) PLS. + RFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3000 -.3000 -.3000 -.3000

WMO1 (2) = .973 ALPHA(X) 4) = 4.000

SECTION (1) PLS. + RFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3000 -.3000 -.3075 -.3075

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ARC11-716 IAS4 CITIES-BUSINESS-AT11 PUB-RESPL BASE

ARC1171

WACH (2) = .077 ALPHA(X) 0 = 0.000
 SECTION (1) PLS. + SPLANE BASE. DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0007 -.0040 -.0001 -.0020 -.0000

WACH (2) = 1.102 ALPHA(X) 1 = -7.940
 SECTION (1) PLS. + SPLANE BASE. DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0002 -.0005 -.0006 -.0001

WACH (2) = 1.101 ALPHA(X) 2 = -3.000
 SECTION (1) PLS. + SPLANE BASE. DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0001 -.0000 -.0005 -.0010 -.0004

WACH (2) = 1.100 ALPHA(X) 3 = .000
 SECTION (1) PLS. + SPLANE BASE. DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0000 -.0001 -.0004 -.0000

WACH (2) = 1.100 ALPHA(X) 4 = 4.000
 SECTION (1) PLS. + SPLANE BASE. DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0000 -.0000 -.0000 -.0010



D

ARC11-716 1A14 O1712-81263-AT11 P10-MUOPL BASE

0810137

WICH (2) = 1.000 ALPHA(2) = 0.000

SECTION (1) P10. * SPLANE BASE DEPENDENT VARIABLE CP

TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2700 -.2104 -.2047 -.2010 -.2175

WICH (4) = 1.240 ALPHA(1) = -7.040

SECTION (1) P10. * SPLANE BASE DEPENDENT VARIABLE CP

TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2700 -.2000 -.2000 -.2130 -.2004

WICH (4) = 1.240 ALPHA(2) = -3.040

SECTION (1) P10. * SPLANE BASE DEPENDENT VARIABLE CP

TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.2002 -.2040 -.2400 -.2140

WICH (4) = 1.244 ALPHA(2) = .000

SECTION (1) P10. * SPLANE BASE DEPENDENT VARIABLE CP

TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.2707 -.2013 -.2000 -.2441

WICH (4) = 1.240 ALPHA(4) = 4.010

SECTION (1) P10. * SPLANE BASE DEPENDENT VARIABLE CP

TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.2000 -.2007 -.2100 -.2070

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ARC11-716 1A14 01-112-3126-1-1711 PUB-RUSPL BASE

08010171

WMO: (4) = 1.000 ALPHAX 2) = 7.000

SECTION (1) 11713. + 0PLANE BASE DEPENDENT VARIABLE Z CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0279 -.0720 -.0208 -.3019 -.3000



PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
RUDDER = .000 SPDRK = .000

REFERENCE DATA

REF = 2.4210 30.FT. YMRP = 29.3500 INCHES
LREF = 30.7050 INCHES YMRP = .0000 INCHES
REF = 30.7050 INCHES ZMRP = .0000 INCHES
SCALE = .0500 SCALE

MACH (1) = .998 BETA0 (1) = -8.060
SECTION (1) PUB. + INFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2567 -.2775 -.2928 -.3004 -.4594

MACH (1) = .998 BETA0 (2) = -4.010
SECTION (1) PUB. + INFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2273 -.2460 -.2775 -.3255 -.4692

MACH (1) = .997 BETA0 (3) = .050
SECTION (1) PUB. + INFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2538 -.2557 -.2875 -.3792 -.6377

MACH (1) = .998 BETA0 (4) = 4.100
SECTION (1) PUB. + INFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2414 -.2742 -.3065 -.3549 -.5596

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ARC11-716 1A14 OL+712-812MS-AT11 PUS+RUDPL BASE

(R81C18)

WACH (1) = .000 BETA0 (9) = 9.130
 SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2403 -.2712 -.2725 -.5684 -.4617
 WACH (2) = .976 BETA0 (1) = -8.030

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2065 -.3200 -.3223 -.7009 -.5739
 WACH (2) = .976 BETA0 (2) = -4.010

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2002 -.2174 -.3475 -.0614 -.0649
 WACH (2) = .975 BETA0 (3) = .040

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.2379 -.2031 -.7001 -.0206
 WACH (2) = .976 BETA0 (4) = 4.070

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.2000 -.2002 -.0739 -.5739



ARC11-716 1A14 04+TIC+SIEMENS+AT11 PUS+RUCPL BASE (R81C10)

WACH (2) = .974 BETA0 (9) = 0.120
 SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0295 -.0270 -.3203 -.0000 -.9193
 WACH (3) = 1.102 BETA0 (1) = -9.000
 SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3113 -.3365 -.3048 -.5902 -.9217
 WACH (3) = 1.100 BETA0 (2) = -4.010
 SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3010 -.3210 -.3429 -.5091 -.5328
 WACH (3) = 1.102 BETA0 (3) = .030
 SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3004 -.3223 -.3355 -.5046 -.4802
 WACH (3) = 1.100 BETA0 (4) = 4.000
 SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3004 -.3249 -.3249 -.5425 -.4150

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(R81C10)

ARC11-716 1A14 CH+T12+S12E2+AT11 PUS+RUOPL BASE

WACH (3) = 1.100 BETA0 (3) = 0.130
 SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2308 -.2308 -.3137 -.2648 -.3613
 WACH (4) = 1.232 BETA0 (1) = -0.080

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2554 -.2707 -.3514 -.4278 -.3756
 WACH (4) = 1.244 BETA0 (2) = -4.030

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2283 -.2301 -.2620 -.3470 -.3900
 WACH (4) = 1.248 BETA0 (3) = .030

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2337 -.2770 -.3033 -.3573 -.3346
 WACH (4) = 1.246 BETA0 (4) = 4.080

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2347 -.2707 -.2216 -.3683 -.2712



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ARC11-716 1A14 C8+T12+312MS+AT11 FUB+RUDPL BASE

(R01C10)

WMO1 (4) = 1.248 BETA0 (5) = 0.120

SECTION (11) PUS. + WFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2101 -.2583 -.2916 -.4479 -.2353

MRC11-716 1A14 01-T1E-312E2-AT10 PUS+RUOPL BASE

(R01C24) (28 SEP 75)

REFERENCE DATA

SERP = 2.4210 30.FT. 1SRP = 29.5000 INCHES
 LTRP = 36.7090 INCHES 1TRP = .0000 INCHES
 ZSRP = 36.7090 INCHES 2SRP = .0000 INCHES
 SCALE = .0000 SCALE

MACH (1) = .902 BETA0 (1) = -9.690

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -2.440 -.2833 -.4163 -.6673 -.6463

MACH (1) = .669 BETA0 (2) = 10.090

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -.2285 -.2264 -.3206 -.6152 -.6452

PARAMETRIC DATA

ALPHA0 = -10.000 ELEVON = .000
 RUDDER = .000 SPDRK = .000



ARC11-716 1A14 OUTSIDE+ATTIO PUB+RUDEL BASE

(ORICES) (29 SEP 75)

REFERENCE DATA

BRP = 2.4210 80.FT. WRP = 29.8400 INCHES
 LWRP = 38.7090 INCHES YWRP = .0000 INCHES
 BRP = 38.7090 INCHES ZWRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA0 = -8.000 ELEVON = .000
 RUDDER = .000 SPDRK = .000

WACH (1) = .000 BETA0 (1) = -9.930

SECTION (1) PUB. + SPLAKE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2000 -0.2007 -0.3041 -0.0000 -0.0100

WACH (1) = .000 BETA0 (2) = 10.000

SECTION (1) PUB. + SPLAKE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.0471 -0.0021 -0.3124 -0.0108 -0.0003

ARC11-716 1A14 Q4-Y112-S12E2-A110 PUSH-RUDPL BASE

(RBIC26) (28 SEP 73)

REFERENCE DATA

SRP = 2.4210 30.FT. ZMRP = 29.9000 INCHES
 LRP = 30.7090 INCHES YMRP = .0000 INCHES
 ZRP = 30.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

WAOH (1) = .087 BETAO (1) = -9.940

SECTION (1) PUS. + RFLAME BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -0.2104 -0.2002 -0.3055 -0.6008 -0.5593

WAOH (1) = .088 BETAO (2) = 10.070

SECTION (1) PUS. + RFLAME BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -0.2822 -0.2722 -0.2591 -0.2214 -0.2060

PARAMETRIC DATA

ALPHA0 = -6.000 ELEVCH = .000
 RUDDER = .000 SPOCRK = .000



ARC11-716 1A14 C0-71E-512E8-AT10 PUB-VRICPL BASE

REFERENCE DATA

SWP = 2.4210 34.FT. WRP = 29.5600 INCHES
 LWP = 28.7090 INCHES YWP = .0000 INCHES
 ZWP = 36.7090 INCHES ZWRP = .0000 INCHES
 SCALE = .0300 SCALE

WICH (1) = .000 BETA0 (1) = -9.990

SECTION (1) PUB. + RFLARE BASE DEPENDENT VARIABLE OF

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2175 -.2006 -.3457 -.0518 -.5764

PARAMETRIC DATA

ALPHA = -4.000 ELEVON = .000
 RUDDER = .000 SPOBRK = .000

MFC11-716 1A14 OR-T12-S12E3-AT10 PUS-RUDPL BASE

(R81C28) (28 SEP 73)

REFERENCE DATA

WRP = 2.4210 20.71. WRP = 29.2000 INCHES
 WRP = 29.7090 INCHES WRP = .0000 INCHES
 WRP = 29.7090 INCHES WRP = .0000 INCHES
 SCALE = .0000 SCALE

WACH (1) = 1.246 BETHO (1) = -10.000

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.2000 2.0000 3.0000 4.0000 5.0000

.000 -.2186 -.2000 -.2402 -.4095 -.3043

WACH (1) = 1.246 BETHO (2) = -7.900

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

TS -.2207 -.2010 -.2002 -.4271 -.3750

WACH (1) = 1.246 BETHO (3) = -6.000

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2204 -.2021 -.2012 -.3002 -.3750

WACH (1) = 1.247 BETHO (4) = -3.950

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2110 -.2433 -.2010 -.3000 -.3002

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 RUDDER = .000 SPDRNK = .000



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ARC11-716 1A14 OR-T12-912E3-A110 PUB-RUDPL BASE (RBITC01)

WACH (1) = 1.246 BETHO (9) = -2.040

SECTION (1) PUB. * REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2176 -0.2480 -0.2510 -0.2685 -0.3742

WACH (1) = 1.246 BETHO (8) = .010

SECTION (1) PUB. * REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2144 -0.2290 -0.2324 -0.2557 -0.3335

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REFERENCE DATA

WHP = 2.4216 99.77. WHP = 29.9900 INCHES
LHP = 20.7000 INCHES WHP = .0000 INCHES
WHP = 20.7000 INCHES WHP = .0000 INCHES
SCALE = .0000 SCALE

WACH (1) = 1.245 BETA (1) = .000

SECTION (1) = 1000. + SPURGE BASE DEPENDENT VARIABLE C/P

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2804 -.2045 -.2045 -.2077 -.2753

PARAMETRIC DATA

ALPHA = -10.000 ELEVON = .000
RUDDER = .000 SPDRNK = .000



PARAMETRIC DATA

ALPHAO = .000 ELEVON = .000
BLODOR = .000 SPOROK = .000

REFERENCE DATA

WHP = 2.4216 20.71. WHP = 20.0000 110-03
LWP = 20.7000 110-03 WHP = .0000 110-03
WHP = 20.7000 110-03 WHP = .0000 110-03
SCALE = .0000 SCALE

WCH (1) = .072 SEINO (1) = .040

SECTION (11748. + SPLANE BASE DEFOODT VARIABLE CP

TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0000 -.0007 -.0007 -.0003

WCH (2) = 1.000 SEINO (1) = .040

SECTION (11748. + SPLANE BASE DEFOODT VARIABLE CP

TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0004 -.0001 -.0000 -.0007 -.0011

WCH (3) = 1.000 SEINO (1) = .040

SECTION (11748. + SPLANE BASE DEFOODT VARIABLE CP

TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0002 -.0000 -.0000 -.0004 -.0004

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REFERENCE DATA

SWP = 2.4210 98.FT. SWP = 29.7600 INCHES
 LWP = 20.7000 INCHES WHP = .0000 INCHES
 SWP = 20.7000 INCHES SWP = .0000 INCHES
 SCALE = .0000 SCALE

ALPHAO (1) = -10.110 BETAO (1) = -0.370

SECTION (1) PUS. * SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0000 -.0004 -.0005 -.0012

ALPHAO (2) = -10.110 BETAO (2) = -0.360

SECTION (1) PUS. * SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0002 -.0000 -.0004 -.0004 -.0000

ALPHAO (3) = -10.110 BETAO (3) = -0.340

SECTION (1) PUS. * SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0000 -.0004 -.0000 -.0000

ALPHAO (4) = -10.000 BETAO (4) = -0.300

SECTION (1) PUS. * SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0000 -.0000 -.0000 -.0000

PARAMETRIC DATA

MACH = .000 ELEVON = .000
 RUDDER = .000 SPOON = .000



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ARC11-716 1A14 01-715-5125-AT10 PUS+RUDFL BASE (R51C31)

ALPHAX (1) = -10.040 BETA0 (5) = -1.000

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2377 -.2368 -.3300 -.7429 -.7706

ALPHAX (1) = -10.040 BETA0 (6) = .100

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2593 -.2774 -.3306 -.7296 -.7041

ALPHAX (1) = -10.040 BETA0 (7) = 1.010

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2302 -.2508 -.3275 -.6884 -.7416

ALPHAX (1) = -10.130 BETA0 (8) = 3.980

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2860 -.2829 -.3301 -.6131 -.7428

ALPHAX (1) = -10.130 BETA0 (9) = 5.250

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2688 -.2821 -.3153 -.5047 -.6827

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ARC11-716 1A14 OVTI2N3I2B2A110 PUS-RUDPL BASE (RB1C31)

ALPHAO1 1) = -10.128 BETA0 (10) = 7.010
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2556 -.2756 -.3033 -.3723 -.6519

ALPHAO1 1) = -10.130 BETA0 (11) = 9.790
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2480 -.2727 -.3054 -.5906 -.6567

ALPHAO1 2) = -6.110 BETA0 (1) = -6.350
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2808 -.2819 -.3482 -.6783 -.6029

ALPHAO1 2) = -6.120 BETA0 (2) = -6.640
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2173 -.2440 -.3219 -.7094 -.6236

ALPHAO1 2) = -6.120 BETA0 (3) = -4.940
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2181 -.2353 -.3102 -.6252 -.6181



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ARC11-716 1A14 01+712+812E3+AT10 PUS+RUOP, BASE (R81C31)

ALPHAO(2) = -8.130 BETA0 (4) = -3.270
SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2221 -.2408 -.3126 -.7126 -.6905
ALPHAO(2) = -8.130 BETA0 (5) = -1.800
SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.200 -.2169 -.2477 -.3155 -.7438 -.7565
ALPHAO(2) = -8.130 BETA0 (6) = .010
SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2487 -.2885 -.3178 -.7327 -.7840
ALPHAO(2) = -8.120 BETA0 (7) = 1.700
SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2833 -.3101 -.3282 -.6541 -.7283
ALPHAO(2) = -8.110 BETA0 (8) = 3.340
SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2255 -.2387 -.2868 -.3844 -.7269

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ARC11-716 1A14 C1-T12-SIZES+AT10 PUS+RUOPL BASE

(RBIC31)

ALPHA01 2) = -8.080 BETA0 (9) = 4.990

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2208 -0.2481 -0.2873 -0.4955 -0.6484

ALPHA01 2) = -8.080 BETA0 (10) = 6.790

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2309 -0.2595 -0.2984 -0.5573 -0.8216

ALPHA01 2) = -8.080 BETA0 (11) = 6.570

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2519 -0.2792 -0.2937 -0.5900 -0.8157

ALPHA01 2) = -8.100 BETA0 (1) = -8.140

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2112 -0.2497 -0.3409 -0.6080 -0.7911

ALPHA01 2) = -8.110 BETA0 (2) = -8.480

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2098 -0.2418 -0.3147 -0.7040 -0.8115



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(RBIC31)

ARC11-716 [A14 01-712-SIZES+AT10 PUB+RUOPL BASE

ALPHAO (3) = -6.130 BETAO (3) = -4.820
 SECTION (1) PUB. + RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1989 -.2215 -.2335 -.6684 -.6190

ALPHAO (3) = -6.148 BETAO (4) = -3.220
 SECTION (1) PUB. + RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2169 -.2315 -.2349 -.6990 -.6459

ALPHAO (3) = -6.050 BETAO (5) = -1.620
 SECTION (1) PUB. + RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2102 -.2404 -.2516 -.7517 -.7094

ALPHAO (3) = -6.050 BETAO (6) = .000
 SECTION (1) PUB. + RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2406 -.2733 -.2849 -.7106 -.7362

ALPHAO (3) = -6.050 BETAO (7) = 1.040
 SECTION (1) PUB. + RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2676 -.3022 -.3124 -.6591 -.7276

ARC11-716 IA14 08-712-512E2-AT10 PUS-RUDPL BASE

(M81C31)

ALPHAO(3) = -6.160 BETAO (8) = 3.330

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0216 -.2404 -.2792 -.5579 -.7230

ALPHAO(3) = -6.160 BETAO (9) = 5.010

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2144 -.2205 -.2750 -.4657 -.6059

ALPHAO(3) = -6.140 BETAO (10) = 6.740

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2148 -.2406 -.2757 -.5512 -.5987

ALPHAO(3) = -6.140 BETAO (11) = 6.500

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2219 -.2281 -.2851 -.5051 -.5874

ALPHAO(3) = -4.130 BETAO (1) = -9.900

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2177 -.2041 -.3003 -.6405 -.5791



081C311

ARC11-716 1A14 01-712-91283-AT10 PUS-RUEPL BASE

ALPHAO1 4) = -4.180 BETA0 (2) = -7.970

SECTION (1) PUS. + RFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2008 -.2046 -.2046 -.2042 -.4824

ALPHAO1 4) = -4.210 BETA0 (3) = -5.970

SECTION (1) PUS. + RFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1973 -.2200 -.2073 -.2047 -.2440

ALPHAO1 4) = -4.180 BETA0 (4) = -3.980

SECTION (1) PUS. + RFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2008 -.2046 -.2018 -.2091 -.2028

ALPHAO1 4) = -4.180 BETA0 (5) = -1.980

SECTION (1) PUS. + RFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2008 -.2311 -.2733 -.2043 -.7126

ALPHAO1 4) = -4.180 BETA0 (6) = .030

SECTION (1) PUS. + RFLAME BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2047 -.2040 -.2054 -.2003 -.7477

ARC11-716 1A14 01-T12-SIDES+AT10 PUB+RUDPL BASE

(RB1C31)

ALPHA(X) 4) = -4.170 BETA(O (7) = 2.020

SECTION (1)PUB. + RPLAZE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2500 -0.2003 -0.2037 -0.0048 -0.7027

ALPHA(X) 4) = -4.240 BETA(O (8) = 4.040

SECTION (1)PUB. + RPLAZE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3408 -0.2709 -0.2838 -0.5421 -0.6736

ALPHA(X) 4) = -4.230 BETA(O (9) = 6.020

SECTION (1)PUB. + RPLAZE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3409 -0.2343 -0.2823 -0.2078 -0.6123

ALPHA(X) 4) = -4.200 BETA(O (10) = 8.070

SECTION (1)PUB. + RPLAZE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3402 -0.2829 -0.2806 -0.2001 -0.5741

ALPHA(X) 4) = -4.200 BETA(O (11) = 10.000

SECTION (1)PUB. + RPLAZE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2216 -0.2308 -0.2048 -0.0160 -0.6207



OR11C311

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ARC11-716 1A14 01712-SIDES-ATT10 PUB-RUDPL BASE

ALPHAX 5) = -2.870 BETA0 (1) = -9.990
SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2191 -0.2023 -0.3950 -0.6427 -0.9081
ALPHAX 9) = -2.860 BETA0 (2) = -7.990
SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1998 -0.2422 -0.3250 -0.6627 -0.4680
ALPHAX 9) = -2.870 BETA0 (3) = -5.970
SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1822 -0.2225 -0.2948 -0.6041 -0.9104
ALPHAX 9) = -2.860 BETA0 (4) = -3.990
SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2048 -0.2226 -0.2017 -0.6038 -0.6115
ALPHAX 9) = -2.840 BETA0 (5) = -1.990
SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1993 -0.2221 -0.2040 -0.6067 -0.6700

(R51C31)

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ARC11-716 1A14 01+712-SIDES-AT10 PUS-RUDPL BASE

ALPHAO1 91 = -2.040 BETA0 (91) = .010
 SECTION (1) PUS. + WFLAME BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.001 -0.003 -0.000 -0.000 -0.002

ALPHAO1 91 = -2.040 BETA0 (71) = 2.040
 SECTION (1) PUS. + WFLAME BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.001 -0.006 -0.003 -0.027 -0.027

ALPHAO1 91 = -2.040 BETA0 (61) = 4.050
 SECTION (1) PUS. + WFLAME BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.004 -0.006 -0.000 -0.007 -0.009

ALPHAO1 91 = -2.070 BETA0 (91) = 0.060
 SECTION (1) PUS. + WFLAME BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.010 -0.010 -0.000 -0.000 -0.000

ALPHAO1 91 = -2.070 BETA0 (161) = 0.070
 SECTION (1) PUS. + WFLAME BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.027 -0.047 -0.076 -0.000 -0.076

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ARC11-718 1A14 CR-112-8128-2110 PUB-ROPL BASE

081C311

ALPHAO1 01 = -2.838 BETA0 (11) = 10.000

SECTION (11)PUB. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2228 -.2004 -.2043 -.0236 -.0139

ALPHAO1 02 = -.000 BETA0 (1) = -10.000

SECTION (11)PUB. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2042 -.2240 -.3000 -.0200 -.2404

ALPHAO1 03 = -.000 BETA0 (2) = -7.000

SECTION (11)PUB. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2013 -.2208 -.2134 -.0006 -.4703

ALPHAO1 04 = -.070 BETA0 (3) = -5.000

SECTION (11)PUB. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1000 -.2040 -.2001 -.0000 -.0204

ALPHAO1 05 = -.000 BETA0 (4) = -3.070

SECTION (11)PUB. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1000 -.2172 -.2003 -.0000 -.0003

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ARC11-716 IAI4 OS-TIR-SIDES+AT10 PUB-RUDPL BASE

081C311

ALPHACO 0 = -.000 BETA0 (5) = -1.000
 SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP
 TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.1046 -.1914 -.2619 -.3005 -.0222

ALPHACO 0 = -.000 BETA0 (6) = .010
 SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP
 TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2375 -.2770 -.2944 -.6754 -.0000
 ALPHACO 0 = -.000 BETA0 (7) = 2.000
 SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP
 TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3400 -.2770 -.2067 -.0000 -.0721
 ALPHACO 0 = -.000 BETA0 (8) = 4.000
 SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP
 TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1004 -.2006 -.2721 -.2043 -.0077
 ALPHACO 0 = -.000 BETA0 (9) = 0.000
 SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP
 TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.2000 -.2000 -.0000 -.0000



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081C311

MFC11-716 1A14 01-712-81263-AT10 PUM-RUPFL BASE

ALPHAO1 01 = -.000 SETAO (10) = 0.000

SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP

TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2175 -.2571 -.2692 -.2870 -.5403

ALPHAO1 01 = -.000 SETAO (11) = 10.120

SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP

TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2185 -.2620 -.2770 -.2825 -.2900

ALPHAO1 01 = 2.000 SETAO (1) = -10.000

SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP

TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2071 -.2202 -.2307 -.2402 -.2501

ALPHAO1 01 = 1.000 SETAO (2) = -5.900

SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP

TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1600 -.2014 -.2175 -.2260 -.2300

ALPHAO1 01 = 1.070 SETAO (2) = -3.000

SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP

TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1600 -.2120 -.2245 -.2302 -.2300

081C381

ARC11-716 1A16 C0718-518E+ATT10 PUS+R00PL BASE

ALPHA01 7) = 1.000 SETAO (4) = -1.990
 SECTION (1)PUS. + SPLANE BASE DEPENDOR VARIABLE CP
 TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1010 -.1002 -.2424 -.0700 -.2005

ALPHA01 7) = 1.000 SETAO (5) = .000
 SECTION (1)PUS. + SPLANE BASE DEPENDOR VARIABLE CP
 TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2540 -.2740 -.2007 -.0440 -.0007

ALPHA01 7) = 1.070 SETAO (6) = 2.040
 SECTION (1)PUS. + SPLANE BASE DEPENDOR VARIABLE CP
 TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2540 -.2000 -.2002 -.0000 -.0073

ALPHA01 7) = 2.000 SETAO (7) = 4.000
 SECTION (1)PUS. + SPLANE BASE DEPENDOR VARIABLE CP
 TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1000 -.2010 -.2701 -.2004 -.0005

ALPHA01 7) = 2.000 SETAO (8) = 0.070
 SECTION (1)PUS. + SPLANE BASE DEPENDOR VARIABLE CP
 TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1004 -.0004 -.0000 -.1070 -.0000



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ARC11-716 IAI4 01+T12+S12M25+AT10 PUS+RUOPL BASE (R01C31)

ALPHAO (7) = 2.040 BETAO (9) = 6.090
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2006 -.2323 -.2437 -.5079 -.4544

ALPHAO (7) = 2.050 BETAO (10) = 10.110
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2125 -.2044 -.2503 -.0192 -.5366

ALPHAO (8) = 4.110 BETAO (1) = -10.000
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1934 -.2436 -.3100 -.5708 -.4720

ALPHAO (8) = 4.130 BETAO (2) = -7.960
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2037 -.2505 -.3079 -.5726 -.3666

ALPHAO (8) = 4.150 BETAO (3) = -5.940
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1665 -.2170 -.2821 -.6053 -.3379

ARC11-716 1A14 CH+T12+S12E5+AT10 PUS+RU0PL BASE

(R81C31)

ALPHAO(8) = 4.160 BETAO (4) = -3.960
SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1760 -.2001 -.2353 -.2921 -.4751

ALPHAO(8) = 4.040 BETAO (5) = -1.960
SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1720 -.1936 -.2378 -.2664 -.3641

ALPHAO(8) = 4.050 BETAO (6) = .030
SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2020 -.2062 -.2040 -.2061 -.2028

ALPHAO(8) = 4.050 BETAO (7) = 2.050
SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2134 -.2066 -.2777 -.2975 -.2016

ALPHAO(8) = 4.050 BETAO (8) = 4.050
SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1876 -.2002 -.2060 -.4026 -.2637



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ARC11-716 1A14 01-712-SIDES+AT10 PUS+RUDPL BASE

(RB1C31)

ALPHAX(8) = 4.020 BETA(9) = 6.070

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2006 -.2299 -.2503 -.5226 -.4127

ALPHAX(8) = 4.010 BETA(10) = 6.100

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1965 -.2404 -.2480 -.2874 -.4247

ALPHAX(8) = 4.000 BETA(11) = 10.130

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2093 -.2651 -.2582 -.6080 -.5146

ALPHAX(9) = 6.000 BETA(1) = -9.960

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1936 -.2442 -.3047 -.2808 -.3978

ALPHAX(9) = 5.820 BETA(2) = -7.960

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1848 -.2227 -.2901 -.2379 -.3046

ARC11-716 IA14 01+712+812E3+AT10 PUS+RU0FL BASE

(R81C31)

ALPHAO(9) = 5.940 BETA0 (3) = -5.940

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1627 -.2111 -.2767 -.3772 -.5334

ALPHAO(9) = 5.950 BETA0 (4) = -3.970

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1775 -.2508 -.2469 -.2639 -.4504

ALPHAO(9) = 5.940 BETA0 (5) = -1.940

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1706 -.1920 -.2226 -.2620 -.5403

ALPHAO(9) = 5.940 BETA0 (6) = .040

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2150 -.2405 -.2474 -.2674 -.5664

ALPHAO(9) = 5.860 BETA0 (7) = 2.040

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2153 -.2492 -.2696 -.3364 -.5914



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081C31)

ARC11-716 1A14 01-71E-SIZES+AT10 PUB+RUOPL BASE

ALPHAO(9) = 5.900 BETAO (9) = 4.070

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1915 -.2136 -.2376 -.4309 -.4622

ALPHAO(9) = 5.900 BETAO (9) = 6.100

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1915 -.2227 -.2409 -.3167 -.3294

ALPHAO(9) = 6.020 BETAO (10) = 6.130

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1602 -.2408 -.2440 -.2676 -.3438

ALPHAO(9) = 5.900 BETAO (11) = 10.150

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2007 -.2397 -.2464 -.2906 -.4527

ALPHAO(10) = 6.020 BETAO (1) = -9.970

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1625 -.2309 -.3014 -.4672 -.5296

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ARC11-716 1A14 CH+T12+S12E5+AT10 PUS+R10PL BASE (R01C31)

ALPHAO(10) = 6.000 BETA0 (2) = -7.950

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1750 -0.2130 -0.2712 -0.5100 -0.2754

ALPHAO(10) = 7.960 BETA0 (3) = -5.950

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1777 -0.2097 -0.2454 -0.5293 -0.3212

ALPHAO(10) = 7.940 BETA0 (4) = -3.970

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1783 -0.1948 -0.2447 -0.5708 -0.4295

ALPHAO(10) = 7.940 BETA0 (5) = -1.960

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1709 -0.1975 -0.2200 -0.6431 -0.4632

ALPHAO(10) = 7.600 BETA0 (6) = .000

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2044 -0.2407 -0.2157 -0.5028 -0.4033



(R61C31)

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MRC11-716 1A14 CR-TIE-SIZES+AT10 PUS+RUOPL BASE

ALPHA(10) = 7.940 BETA(7) = 2.080

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2146 -.2400 -.2700 -.3336 -.5406

ALPHA(10) = 8.010 BETA(8) = 4.090

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1748 -.1966 -.2358 -.4448 -.4687

ALPHA(10) = 8.000 BETA(9) = 8.120

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1807 -.2007 -.2336 -.3081 -.3548

ALPHA(10) = 7.900 BETA(10) = 8.120

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1721 -.2202 -.2498 -.3636 -.2773

ALPHA(10) = 7.920 BETA(11) = 10.200

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1804 -.2208 -.2438 -.3606 -.2887

ARC11-716 1A14 081718-S128S+AT10 PUS+RUOPL BASE

(RB1C31)

ALPHAO(11) = 9.990 BETAO (1) = -9.930

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1028 -0.2315 -0.2709 -0.4208 -0.2554

ALPHAO(11) = 10.010 BETAO (2) = -7.910

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1006 -0.2102 -0.2579 -0.4596 -0.2719

ALPHAO(11) = 9.960 BETAO (3) = -9.960

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1785 -0.2812 -0.2882 -0.5106 -0.3304

ALPHAO(11) = 9.948 BETAO (4) = -3.970

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1606 -0.2042 -0.2303 -0.2575 -0.4099

ALPHAO(11) = 9.948 BETAO (5) = -1.960

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1685 -0.2888 -0.2140 -0.2669 -0.4468



ARC11-716 IAS14 01-0712-51252-AT10 PUB-RUDPL BASE

ORBCS11

ALPHA(11) = 9.900 BETA(6) = .040
 SECTION (1)PUB. + SPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.1665 -.1708 -.2007 -.2541 -.4483

ALPHA(11) = 9.900 BETA(7) = 2.070
 SECTION (1)PUB. + SPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1067 -.1946 -.2106 -.2054 -.4487
 ALPHA(11) = 9.900 BETA(8) = 4.110
 SECTION (1)PUB. + SPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1068 -.2192 -.2174 -.4127 -.4487
 ALPHA(11) = 9.900 BETA(9) = 6.130
 SECTION (1)PUB. + SPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1036 -.2092 -.2211 -.4069 -.3405
 ALPHA(11) = 10.000 BETA(10) = 9.170
 SECTION (1)PUB. + SPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1006 -.2121 -.2275 -.3921 -.2733

DATE 09 DEC 74

TABULATED PRESSURE DATA - 1A14A - VOL. 3

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ARC11-716 1A14 01-0112-512M25*AT10 PUB*RUOPL BASE

(R01C31)

ALPHAX(11) = 10.050 BETA0 (11) = 10.250

SECTION (11)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0200 -.0300 -.0400 -.0500



ARC11-716 1A14 Q1-T12-S1DMS+ATT16 PUM-RUOP, BASE

(R01C3E) (17 APR 74)

PARAMETRIC DATA

WACH = 1.100 ELEVON = .008
RUDDER = .000 SPOBRK = .000

REFERENCE DATA

WOP = 2.4210 30.FT. WOP = 29.9000 INCHES
LWOP = 30.7000 INCHES LWOP = .0000 INCHES
SWOP = 30.7000 INCHES SWOP = .0000 INCHES
SCALE = .0000 SCALE

ALPHAOX 1) = -10.200 BETA0 (1) = -9.900

SECTION (1)PUB. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.2076 -.4296 -.9377 -.5027

ALPHAOX 1) = -10.200 BETA0 (2) = -7.600

SECTION (1)PUB. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.2000 -.4000 -.9200 -.4000

ALPHAOX 1) = -10.200 BETA0 (3) = -5.900

SECTION (1)PUB. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.2000 -.4000 -.9000 -.4717

ALPHAOX 1) = -10.200 BETA0 (4) = -3.800

SECTION (1)PUB. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.2000 -.4000 -.9000 -.4071

ARC11-716 1A14 01-712-21263-2110 PUS-RUSPL BASE

ORICE:

ALPHAO1 (1) = -10.220 SETAO (9) = -1.040

SECTION (1) PUS. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.3000 -.4000 -.4875 -.4400

ALPHAO1 (1) = -10.040 SETAO (6) = .000

SECTION (1) PUS. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2070 -.3000 -.4027 -.4714 -.4130

ALPHAO1 (1) = -10.220 SETAO (7) = 2.040

SECTION (1) PUS. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.3000 -.4017 -.4400 -.3000

ALPHAO1 (1) = -10.220 SETAO (8) = 4.000

SECTION (1) PUS. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.3000 -.4000 -.4004 -.3404

ALPHAO1 (1) = -10.220 SETAO (9) = 6.000

SECTION (1) PUS. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2070 -.3071 -.4077 -.4000 -.2100

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DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 CR-712-812M2-AT18 PLS-RUDPL BASE

CRSICR2)

ALPHAO1 I) = -18.248 BETA0 (10) = 0.120
SECTION (11)PUS. + SPLANE BASE DEPENDENT VARIABLE OF
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.2000 -.2011 -.2000 -.2037

ALPHAO1 I) = -18.228 BETA0 (11) = 18.110

SECTION (11)PUS. + SPLANE BASE DEPENDENT VARIABLE OF
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.2007 -.2040 -.2058 -.2021

ALPHAO1 I) = -9.190 BETA0 (1) = -9.970

SECTION (11)PUS. + SPLANE BASE DEPENDENT VARIABLE OF
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2700 -.2672 -.2704 -.2682 -.2777

ALPHAO1 I) = -9.700 BETA0 (2) = -7.960

SECTION (11)PUS. + SPLANE BASE DEPENDENT VARIABLE OF
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.2000 -.2007 -.2000 -.2143

ALPHAO1 I) = -9.228 BETA0 (7) = -9.960

SECTION (11)PUS. + SPLANE BASE DEPENDENT VARIABLE OF
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2750 -.2696 -.2777 -.2803 -.2601

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ARC11-716 1A14 08-718-81828-AT18 P18-400PL BAGE (881C38)

ALPHAO1 E1 = -0.288 DETAD (4) = -1.948
 SECTION (11PUB. + SPLANE BAGE DEFODOR VARIABLE OF
 TAP 18 1.0000 2.0000 3.0000 4.0000 5.0000

.088 -.0788 -.3000 -.0000 -.0070 -.4444

ALPHAO1 E1 = -0.138 DETAD (5) = .010
 SECTION (11PUB. + SPLANE BAGE DEFODOR VARIABLE OF
 TAP 18 1.0000 2.0000 3.0000 4.0000 5.0000

.088 -.0078 -.3000 -.0000 -.4787 -.4141

ALPHAO1 E1 = -0.198 DETAD (6) = 2.040
 SECTION (11PUB. + SPLANE BAGE DEFODOR VARIABLE OF
 TAP 18 1.0000 2.0000 3.0000 4.0000 5.0000

.088 -.3011 -.2418 -.0013 -.0042 -.3000

ALPHAO1 E1 = -0.248 DETAD (7) = 4.040
 SECTION (11PUB. + SPLANE BAGE DEFODOR VARIABLE OF
 TAP 18 1.0000 2.0000 3.0000 4.0000 5.0000

.088 -.0000 -.3072 -.3002 -.4004 -.3400

ALPHAO1 E1 = -0.288 DETAD (8) = 6.070
 SECTION (11PUB. + SPLANE BAGE DEFODOR VARIABLE OF
 TAP 18 1.0000 2.0000 3.0000 4.0000 5.0000

.088 -.0007 -.3000 -.3367 -.5400 -.3043



MFC11-716 IA14 01+118+312829+AT10 PUS-RUOPFL BASE (R61C32)

ALPHAO (2) = -6.230 BETA0 (9) = 6.000

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2940 -.3230 -.3083 -.5711 -.3364

ALPHAO (2) = -6.240 BETA0 (10) = 10.100

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2966 -.3261 -.3147 -.5369 -.3245

ALPHAO (3) = -6.210 BETA0 (1) = -10.020

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2981 -.3087 -.4261 -.5554 -.4043

ALPHAO (3) = -6.220 BETA0 (2) = -7.960

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2982 -.3023 -.4053 -.5575 -.4786

ALPHAO (3) = -6.230 BETA0 (3) = -5.960

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2964 -.2966 -.3975 -.5230 -.4004

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ARC11-716 1A14 01-T12-S12E5-AT10 PUS-RUPTL BASE

(M81C32)

ALPHAO(3) = -6.128 BETAO (4) = -1.960

SECTION (1)PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2682 -.2932 -.3632 -.4932 -.4688

ALPHAO(3) = -6.130 BETAO (5) = .000

SECTION (1)PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2783 -.3034 -.3550 -.4604 -.4281

ALPHAO(3) = -6.128 BETAO (6) = 2.030

SECTION (1)PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2391 -.3024 -.3601 -.4721 -.4070

ALPHAO(3) = -6.130 BETAO (7) = 4.060

SECTION (1)PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2397 -.3206 -.3495 -.4934 -.3612

ALPHAO(3) = -6.130 BETAO (8) = 6.080

SECTION (1)PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2734 -.3130 -.3081 -.5432 -.3307



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DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 08-712-5125-AT10 PUB-RUDPL BASE

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ALPHAO(3) = -6.190 BETA0 (9) = 6.090
SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2797 -.3112 -.2912 -.2703 -.3419

ALPHAO(3) = -6.170 BETA0 (10) = 10.080
SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2767 -.3125 -.2956 -.2632 -.3349

ALPHAO(4) = -4.240 BETA0 (1) = -10.010
SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2980 -.3095 -.4346 -.5781 -.2131

ALPHAO(4) = -4.270 BETA0 (2) = -6.080
SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2375 -.3018 -.4077 -.5764 -.4967

ALPHAO(4) = -4.280 BETA0 (3) = -5.970
SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2462 -.2935 -.3837 -.5318 -.5123

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(RB1CSE)

ARC11-716 1A14 CR+T12H+SIEN2+AT10 PUS+RUOFL BASE

ALPHAO1 4) = -4.230 BETA0 (4) = -3.970
 SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2493 -0.2508 -0.3700 -0.4640 -0.5106
 ALPHAO1 4) = -4.240 BETA0 (5) = -1.940

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2598 -0.2675 -0.3425 -0.5000 -0.6618
 ALPHAO1 4) = -4.250 BETA0 (6) = .000

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2719 -0.2891 -0.3183 -0.4692 -0.6329
 ALPHAO1 4) = -4.260 BETA0 (7) = 2.000

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2849 -0.3020 -0.3251 -0.4622 -0.6196
 ALPHAO1 4) = -4.310 BETA0 (8) = 4.040

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2983 -0.3076 -0.3194 -0.4627 -0.5493



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ARC11-716 1A14 041128-81285-AT10 PUB-RUCPL BASE (R81C32)

ALPHAO(4) = -4.220 BETAO (9) = 0.000

SECTION (1)PUB. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2879 -.3042 -.2900 -.2666 -.3460

ALPHAO(4) = -4.210 BETAO (10) = 10.100

SECTION (1)PUB. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2666 -.3042 -.2825 -.2550 -.3403

ALPHAO(9) = -2.920 BETAO (1) = -10.000

SECTION (1)PUB. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2499 -.3049 -.4323 -.3770 -.3076

ALPHAO(9) = -2.930 BETAO (2) = -6.000

SECTION (1)PUB. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1911 -.2927 -.4019 -.3751 -.4929

ALPHAO(9) = -2.930 BETAO (3) = -5.970

SECTION (1)PUB. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2534 -.2136 -.3769 -.3336 -.2136

ARC11-716 1A14 OI+12+S12E5+AT10 PUS+RUOPL BASE

(R81C32)

ALPHAO(5) = -2.910 BETAO (4) = -3.940

SECTION (1)PL... + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2319 -.2871 -.3486 -.4026 -.5099

ALPHAO(5) = -2.910 BETAO (5) = -2.000

SECTION (1)PL... + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2534 -.2843 -.3311 -.5075 -.4887

ALPHAO(5) = -2.910 BETAO (6) = .020

SECTION (1)PL... + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2711 -.2972 -.3052 -.4002 -.4459

ALPHAO(5) = -2.910 BETAO (7) = 2.050

SECTION (1)PL... + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2950 -.3009 -.3137 -.4956 -.4299

ALPHAO(5) = -2.980 BETAO (8) = 4.000

SECTION (1)PL... + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2759 -.3002 -.2983 -.5002 -.3610



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ORIG(CSE)

ARC11-716 1A14 01+T12+SIGN2+AT10 PUS+RUOPL BASE

ALPHAO1 9) = -2.930 BETA0 (9) = 6.070
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.9371 -2.9403 -2.9419 -2.9456 -2.9483
 ALPHAO1 9) = -2.960 BETA0 (10) = 9.110
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.9867 -2.9882 -2.9799 -2.9775 -2.9656
 ALPHAO1 9) = -2.900 BETA0 (11) = 10.100
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0070 4.0000 5.0000

.000 -2.9293 -2.9253 -2.9247 -2.9253 -2.9226
 ALPHAO1 8) = -2.750 BETA0 (1) = -10.040
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.9413 -2.9317 -2.9272 -2.9282 -2.9179
 ALPHAO1 8) = -2.740 BETA0 (2) = -8.040
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.9223 -2.9260 -2.9295 -2.9216 -2.9168

(R61C32)

DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 01+712+51225+AT10 PUS+HUDPL BASE

ALPHACO (3) = -.720 BETA0 (3) = -3.990
SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2405 -.2877 -.3912 -.5492 -.5172

ALPHACO (4) = -.710 BETA0 (4) = -3.990

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2543 -.2871 -.3896 -.4994 -.2837

ALPHACO (5) = -.700 BETA0 (5) = -2.010

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2487 -.2847 -.3819 -.5132 -.2077

ALPHACO (6) = -.690 BETA0 (6) = .040

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2379 -.2824 -.3806 -.5038 -.4805

ALPHACO (7) = -.680 BETA0 (7) = 2.050

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2713 -.2866 -.3908 -.4963 -.4343

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DATE 08 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 01-712-81282-AT10 PUB-MRLOPL BASE

ALPHA01 08 = -.710 BETA0 (8) = 4.000
SECTION (11)PUB. + RPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2398 -.3028 -.3216 -.5188 -.3840

ALPHA01 09 = -.780 BETA0 (9) = 6.000
SECTION (11)PUB. + RPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2880 -.3043 -.3028 -.3706 -.3748

ALPHA01 09 = -.780 BETA0 (10) = 8.100
SECTION (11)PUB. + RPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.5188 -.3028 -.2896 -.3746 -.3718

ALPHA01 09 = -.740 BETA0 (11) = 10.100
SECTION (11)PUB. + RPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2888 -.3128 -.2882 -.3744 -.3884

ALPHA01 71 = 2.000 BETA0 (1) = -10.000
SECTION (11)PUB. + RPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2400 -.3013 -.4183 -.2878 -.3888

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DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 OR-TIE-SIZES-RATIO PUB-RUDPL BASE (R1C32)

ALPHAO1 7) = 2.000 BETA0 (2) = -0.050
SECTION (1)PUB. + REPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2500 -.5000 -.3743 -.5030 -.9131

ALPHAO1 7) = 2.000 BETA0 (3) = -3.900
SECTION (1)PUB. + REPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2501 -.5004 -.3306 -.5022 -.9143
ALPHAO1 7) = 1.040 BETA0 (4) = -4.010
SECTION (1)PUB. + REPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2000 -.5000 -.5074 -.5097 -.3332
ALPHAO1 7) = 1.000 BETA0 (5) = -2.000
SECTION (1)PUB. + REPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2546 -.2712 -.2714 -.5024 -.5033
ALPHAO1 7) = 1.000 BETA0 (6) = .040
SECTION (1)PUB. + REPLANE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2007 -.5000 -.2717 -.5102 -.4033



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DATE 09 DEC 74 SIMULATED PRESSURE DATA - 1A14A - VOL. 3

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ARC11-716 1A14 CR-712-SIZES+ATIO PUS+RUDPL CASE

ALPHAO1 T) = 1.920 BETA0 (T) = 2.000

SECTION (1)PUS. + SPLJRE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0014 -.0008 -.0000 -.0003 -.0400

ALPHAO1 T) = 1.900 BETA0 (0) = 4.070

SECTION (1)PUS. + SPLJRE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0001 -.0005 -.0074 -.0042 -.0012

ALPHAO1 T) = 1.940 BETA0 (9) = 6.100

SECTION (1)PUS. + SPLJRE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0008 -.0010 -.0000 -.0004 -.0000

ALPHAO1 T) = 1.920 BETA0 (100) = 6.100

SECTION (1)PUS. + SPLJRE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0002 -.0001 -.0000 -.0000 -.0004

ALPHAO1 T) = 1.940 BETA0 (11) = 10.140

SECTION (1)PUS. + SPLJRE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0010 -.0002 -.0014 -.0002 -.0070

ARC11-716 IAI14 OI-TIE-SIDE-AT118 PUB-HUDPL BASE

(MSIC02)

ALPHAO1 01 = 3.978 BETAO (1) = -0.908
 SECTION (1) PUB. * SPLINE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.000 -0.000 -0.000 -0.000

ALPHAO1 01 = 3.978 BETAO (2) = -0.000
 SECTION (1) PUB. * SPLINE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.000 -0.000 -0.000 -0.000

ALPHAO1 01 = 3.978 BETAO (3) = -0.000
 SECTION (1) PUB. * SPLINE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.000 -0.000 -0.000 -0.000

ALPHAO1 01 = 3.978 BETAO (4) = -3.908
 SECTION (1) PUB. * SPLINE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.000 -0.000 -0.000 -0.000

ALPHAO1 01 = 3.978 BETAO (5) = -0.000
 SECTION (1) PUB. * SPLINE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.000 -0.000 -0.000 -0.000

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DATE 09 DEC 74 THERMAL PROPERTY DATA - 1A14A - VOL. 3

001000

ARC11-716 1A14 01-015-01525-AT18 PUS-MUSPL BAGE

ALPHAOX (6) = 3.048 BETAO (6) = .048
 SECTION (1)PUS. * SPLANE BAGE DEPENDENT VARIABLE OF
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0015 -.0000 -.0007 -.0000
 ALPHAOX (6) = 4.000 BETAO (7) = 2.000
 SECTION (1)PUS. * SPLANE BAGE DEPENDENT VARIABLE OF
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0010 -.0001 -.0003 -.0001 -.0002
 ALPHAOX (6) = 4.000 BETAO (6) = 4.010
 SECTION (1)PUS. * SPLANE BAGE DEPENDENT VARIABLE OF
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0007 -.0000 -.0014 -.0002 -.0000
 ALPHAOX (6) = 4.000 BETAO (6) = 6.000
 SECTION (1)PUS. * SPLANE BAGE DEPENDENT VARIABLE OF
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0000 -.0010 -.0007 -.0002
 ALPHAOX (6) = 4.000 BETAO (10) = 0.110
 SECTION (1)PUS. * SPLANE BAGE DEPENDENT VARIABLE OF
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0003 -.0000 -.0010 -.0007 -.0002

0810321

DATE 09 DEC 74 TABULATED PRESSURE DATA - IAI14A - VOL. 3

ARC11-716 IAI14 CR17E-SIDES-AT118 PUS-RUDPL BASE

ALPHA01 01 = 4.000 SETAO (11) = 10.100
 SECTION (11)PUS. * SPLAKE BASE DEPENDENT VARIABLE OF
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0164 -.0077 -.0037 -.0065

ALPHA01 01 = 5.000 SETAO (11) = -9.000
 SECTION (11)PUS. * SPLAKE BASE DEPENDENT VARIABLE OF
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0164 -.0077 -.0037 -.0065

ALPHA01 01 = 5.000 SETAO (01) = -7.000
 SECTION (11)PUS. * SPLAKE BASE DEPENDENT VARIABLE OF
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0164 -.0077 -.0037 -.0065

ALPHA01 01 = 3.000 SETAO (01) = -5.000
 SECTION (11)PUS. * SPLAKE BASE DEPENDENT VARIABLE OF
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0000 -.0000 -.0000 -.0000 -.0000

ALPHA01 01 = 5.000 SETAO (01) = -3.000
 SECTION (11)PUS. * SPLAKE BASE DEPENDENT VARIABLE OF
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0071 -.0000 -.0000 -.0000 -.0000

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(R01C32)

DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 CL+12>SIDE>RATIO PUS+RUOPL BASE

ALPHA(X 9) = 5.970 BETA(X 5) = -1.970
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2436 -.2900 -.2709 -.5915 -.9215

ALPHA(X 9) = 5.960 BETA(X 6) = .030
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.8461 -.8074 -.2541 -.5398 -.9079

ALPHA(X 9) = 5.970 BETA(X 7) = 2.030
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2424 -.2940 -.2674 -.3334 -.4679

ALPHA(X 9) = 5.920 BETA(X 8) = 4.060
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2330 -.2877 -.2915 -.5427 -.4306

ALPHA(X 9) = 5.940 BETA(X 9) = 6.100
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2417 -.2674 -.2922 -.5069 -.4075

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ARC11-716 1A14 CR-712-SIENS-AT10 PUS-RUDPL BASE

(R81C32)

ALPHAX(9) = 5.960 BETA(10) = 8.130

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2422 -.3124 -.2884 -.3635 -.4031

ALPHAX(9) = 5.960 BETA(11) = 10.150

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2511 -.3271 -.2970 -.3694 -.3747

ALPHAX(10) = 6.080 BETA(1) = -9.950

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2687 -.3247 -.3599 -.3067 -.4680

ALPHAX(10) = 6.110 BETA(2) = -7.950

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2990 -.3197 -.3211 -.6040 -.4688

ALPHAX(10) = 6.130 BETA(3) = -5.940

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2554 -.3019 -.2920 -.3632 -.3183



DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3

ARC11-716 1A14 04+112+3125+2+AT10 FUS+RU0PL BASE 081C32)

ALPHAO(10) = 7.960 BETAO (4) = -3.970

SECTION (1)PUB. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0094 -.0442 -.0332 -.2293 -.2368

ALPHAO(10) = 6.010 BETAO (5) = -1.970

SECTION (1)PUB. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2533 -.2994 -.2794 -.5987 -.5329

ALPHAO(10) = 7.930 BETAO (6) = .060

SECTION (1)PUB. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2308 -.2365 -.2084 -.5910 -.5160

ALPHAO(10) = 7.970 BETAO (7) = 2.050

SECTION (1)PUB. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2424 -.2338 -.2083 -.5448 -.4734

ALPHAO(10) = 7.920 BETAO (8) = 4.080

SECTION (1)PUB. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2490 -.2341 -.2390 -.5455 -.4513

ALPHAO(10) = 7.920 BETAO (9) = 6.110
SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2504 -.3008 -.3044 -.3048 -.4135

ALPHAO(10) = 7.910 BETAO (10) = 6.160
SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2480 -.3122 -.2948 -.3756 -.4026

ALPHAO(10) = 6.060 BETAO (11) = 10.160
SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2270 -.3353 -.3162 -.6260 -.3560

ALPHAO(11) = 10.040 BETAO (1) = -9.930
SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2506 -.3296 -.3248 -.6158 -.4843

ALPHAO(11) = 9.930 BETAO (2) = -7.950
SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2307 -.3233 -.3303 -.6123 -.3060



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ARC11-716 1A14 01+112+31263+AT10 PUS+R00PL BASE

(R81C32)

ALPHAO(11) = 9.940 BETA0 (3) = -5.920

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2366 -.3193 -.3139 -.5068 -.5332

ALPHAO(11) = 9.960 BETA0 (4) = -3.970

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2327 -.3044 -.2953 -.5267 -.5625

ALPHAO(11) = 9.950 BETA0 (5) = -1.970

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2324 -.2950 -.2663 -.5608 -.5380

ALPHAO(11) = 9.920 BETA0 (6) = .030

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2955 -.2669 -.2327 -.5337 -.5196

ALPHAO(11) = 9.950 BETA0 (7) = 2.040

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2370 -.2669 -.2610 -.5509 -.4738

(RB1C32)

DATE 09 DEC 74 TABULATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 01+712+SIDES+AT10 PUS+RUDFL BASE

ALPHAO(11) = 9.940 BETA0 (8) = 4.000
SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2540 -.3019 -.3067 -.5493 -.4415

ALPHAO(11) = 10.040 BETA0 (9) = 6.140
SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2605 -.3137 -.3041 -.5842 -.4113

ALPHAO(11) = 10.000 BETA0 (10) = 9.160
SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2306 -.3026 -.3026 -.5900 -.3829

ALPHAO(11) = 10.070 BETA0 (11) = 10.230
SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2260 -.3042 -.3199 -.6860 -.3892

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ARC11-716 1A14 05-712-312E3-AT10 PUS-RUOPL BASE

PARAMETRIC DATA

MACH = 1.250 ELEVON = .000
 RUDDER = .000 SPOONK = .000

REFERENCE DATA

REF = 2.4210 20.FT. WARP = 29.9000 INCHES
 LREF = 30.7000 INCHES YREF = .0000 INCHES
 SREF = 30.7000 INCHES ZREF = .0000 INCHES
 SCALE = .0500 SCALE

ALPHAO (1) = -10.340 BETAO (1) = -9.910
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2405 -.2076 -.4013 -.3913 -.3524
 ALPHAO (1) = -10.260 BETAO (2) = -7.960
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2411 -.2076 -.3992 -.3946 -.3522
 ALPHAO (1) = -10.250 BETAO (3) = -5.960
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2287 -.2085 -.3908 -.3439 -.3369
 ALPHAO (1) = -10.240 BETAO (4) = -3.940
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2261 -.2104 -.3969 -.3654 -.3272

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ARC11-716 1A14 01+T12+312ES+AT10 PUS+RUOPL BASE

(M81C33)

ALPHAO(1) = -10.230 BETA(9) = -1.973
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2344 -.2679 -.3939 -.3204 -.3165

ALPHAO(1) = -10.160 BETA(8) = .020
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2305 -.2409 -.3409 -.3001 -.2795

ALPHAO(1) = -10.160 BETA(7) = 2.040
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2372 -.2709 -.3670 -.3015 -.2465

ALPHAO(1) = -10.220 BETA(6) = 4.080
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2476 -.2400 -.3380 -.3170 -.2192

ALPHAO(1) = -10.230 BETA(9) = 6.080
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2365 -.2376 -.3345 -.3736 -.1814



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DATE OF DEC 74 SIMULATED PRESSURE DATA - 1A14A - VOL. 3
ARC11-716 1A14 CR-TIE-SIZES=AT10 PUB-RDPL BASE (081C33)

ALPHAO1 (1) = -10.820 BETA0 (10) = 0.120
SECTION (1) PUB. + RFLAME BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2045 -.2705 -.3112 -.4045 -.1000

ALPHAO1 (1) = -10.840 BETA0 (11) = 10.110
SECTION (1) PUB. + RFLAME BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2345 -.2900 -.2904 -.3076 -.1945

ALPHAO1 (2) = -9.820 BETA0 (1) = -9.940
SECTION (1) PUB. + RFLAME BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2372 -.2905 -.3000 -.3005 -.3045

ALPHAO1 (2) = -9.840 BETA0 (2) = -7.960
SECTION (1) PUB. + RFLAME BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2200 -.1902 -.3775 -.6000 -.3400

ALPHAO1 (2) = -9.240 BETA0 (3) = -5.900
SECTION (1) PUB. + RFLAME BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2034 -.2705 -.3100 -.3004 -.3005

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MRC11-716 1A14 01-0115-812E9-AT10 PUB-RUOPL BASE (R81C33)

ALPHAO1 E1 = -0.250 BETA0 (4) = -3.990
 SECTION (1) PUB. * REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2517 -.2575 -.3758 -.3302 -.3438

ALPHAO1 E2 = -0.250 BETA0 (5) = -1.990
 SECTION (1) PUB. * REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2548 -.2572 -.3701 -.3015 -.3234
 ALPHAO1 E3 = -0.250 BETA0 (6) = .010
 SECTION (1) PUB. * REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2596 -.2594 -.3691 -.3124 -.2596
 ALPHAO1 E4 = -0.250 BETA0 (7) = 2.020
 SECTION (1) PUB. * REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2500 -.2687 -.3691 -.3137 -.2588
 ALPHAO1 E5 = -0.250 BETA0 (8) = 4.040
 SECTION (1) PUB. * REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2588 -.2678 -.3116 -.3243 -.2514



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ARC11-716 1A14 CR-TIE-SIZES-RATIO PUB-RUNPL BASE (RRIC33)

ALPHAO1 21 = -0.200 BETAO (9) = 0.000
 SECTION (1) P/B. + W/PLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2247 -.2000 -.2000 -.3772 -.1030

ALPHAO1 21 = -0.200 BETAO (10) = 0.100
 SECTION (1) P/B. + W/PLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0075 4.0000 5.0000

.000 -.2412 -.2775 -.2725 -.4122 -.1903

ALPHAO1 21 = -0.200 BETAO (11) = 10.130
 SECTION (1) P/B. + W/PLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2470 -.2700 -.2882 -.4033 -.1920

ALPHAO1 21 = -0.200 BETAO (1) = -9.970
 SECTION (1) P/B. + W/PLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2288 -.2375 -.2482 -.4008 -.2001

ALPHAO1 21 = -0.200 BETAO (2) = -7.900
 SECTION (1) P/B. + W/PLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2408 -.2500 -.2615 -.4045 -.2022

TABULATED PRESSURE DATA - 1A5-A - VOL. 3

ARC11-716 1A16 01-712-812E3-AT16 PUS-RUSPL BASE

081C331

ALPHA(3) = -6.308 BETA(3) = -6.000
 SECTION (1)PUS. * RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2408 -.2796 -.3336 -.3985 -.3987

ALPHA(3) = -6.280 BETA(4) = -3.940
 SECTION (1)PUS. * RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.5132 -.5094 -.3477 -.3306 -.3016

ALPHA(3) = -6.100 BETA(5) = .000
 SECTION (1)PUS. * RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2548 -.2448 -.3088 -.3048 -.3010

ALPHA(3) = -6.320 BETA(6) = 2.000
 SECTION (1)PUS. * RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2416 -.2427 -.2271 -.2037 -.2716

ALPHA(3) = -6.200 BETA(7) = 4.070
 SECTION (1)PUS. * RPLANE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2284 -.2407 -.2284 -.3041 -.2379



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ARC11-716 1A14 01-718-51829-AT18 P10-400PL SAGE

0010301

ALPHAO1 20 = -6.200 SETAO (0) = 0.000
SECTION (11)PUB. * SPLANE SAGE DEPENDENT VARIABLE CP
TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.200 -0.200 -0.2775 -0.3004 -0.3000

ALPHAO1 20 = -6.270 SETAO (0) = 0.100
SECTION (11)PUB. * SPLANE SAGE DEPENDENT VARIABLE CP
TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.200 -0.200 -0.2475 -0.4271 -0.5047

ALPHAO1 20 = -6.200 SETAO (20) = 10.000
SECTION (11)PUB. * SPLANE SAGE DEPENDENT VARIABLE CP
TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.200 -0.2717 -0.2705 -0.4004 -0.5046

ALPHAO1 40 = -4.200 SETAO (1) = -9.000
SECTION (11)PUB. * SPLANE SAGE DEPENDENT VARIABLE CP
TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2017 -0.2000 -0.3400 -0.4213 -0.3770

ALPHAO1 40 = -4.000 SETAO (20) = -7.000
SECTION (11)PUB. * SPLANE SAGE DEPENDENT VARIABLE CP
TAP 10 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2000 -0.2775 -0.3000 -0.4100 -0.3000

ARC11-716 1A14 01-718-51825-AT18 PUM-INDPL BASE

(R01C33)

ALPHAO1 4) = -4.166 BETA0 (3) = -3.976
 SECTION (1)PUB. * SPLANE BASE DEPENDOR VARIABLE C
 TAP 16 1.0000 2.0000 3.0000 4.0000 5.0000

.026 -0.2348 -0.2870 -0.3112 -0.3067 -0.3067
 ALPHAO1 4) = -4.170 BETA0 (4) = -3.920
 SECTION (1)PUB. * SPLANE BASE DEPENDOR VARIABLE C
 TAP 16 1.0000 2.0000 3.0000 4.0000 5.0000

.026 -0.2112 -0.2482 -0.3004 -0.3484 -0.3717
 ALPHAO1 4) = -4.158 BETA0 (5) = -2.026
 SECTION (1)PUB. * SPLANE BASE DEPENDOR VARIABLE C
 TAP 16 1.0000 2.0000 3.0000 4.0000 5.0000

.026 -0.2191 -0.2200 -0.2200 -0.3483 -0.3283
 ALPHAO1 4) = -4.208 BETA0 (6) = -0.010
 SECTION (1)PUB. * SPLANE BASE DEPENDOR VARIABLE C
 TAP 16 1.0000 2.0000 3.0000 4.0000 5.0000

.026 -0.2204 -0.2200 -0.2204 -0.3301 -0.3004
 ALPHAO1 4) = -4.210 BETA0 (7) = 2.110
 SECTION (1)PUB. * SPLANE BASE DEPENDOR VARIABLE C
 TAP 16 1.0000 2.0000 3.0000 4.0000 5.0000

.026 -0.2217 -0.2482 -0.2707 -0.3417 -0.2816

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TABULATED PRESSURE DATA - 1A14A - VOL. 3

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ARC11-716 1A14 C10T12S12MS+AT10 PUB+RUOPL BASE

ORR(CSS)

ALPHAO(4) = -4.800 BETA(8) = 4.000

SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2203 -.2457 -.2025 -.3454 -.2461

ALPHAO(4) = -4.210 BETA(9) = 6.000

SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.070 -.2202 -.2410 -.2393 -.3965 -.2125

ALPHAO(4) = -4.800 BETA(10) = 8.000

SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2272 -.2029 -.2433 -.4303 -.2122

ALPHAO(4) = -4.100 BETA(11) = 10.000

SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2223 -.2677 -.2393 -.4275 -.2146

ALPHAO(4) = -2.070 BETA(1) = -10.040

SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2467 -.2815 -.3334 -.4191 -.3783

ALPHACO 5) = -2.870 BETA0 (2) = -8.050

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2260 -.2264 -.3173 -.4133 -.3432

ALPHACO 5) = -2.870 BETA0 (3) = -5.940

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2287 -.2280 -.2938 -.3709 -.3469

ALPHACO 5) = -2.860 BETA0 (4) = -3.860

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2283 -.2419 -.2833 -.3213 -.3742

ALPHACO 5) = -2.860 BETA0 (5) = -2.000

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2114 -.2346 -.2680 -.3000 -.3287

ALPHACO 5) = -2.850 BETA0 (6) = .020

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2247 -.2419 -.2704 -.3447 -.3196



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ARC11-716 1A14 OIL-TYPE-SIMES-VAT10 PUS-RLOPL BASE (R81C33)

ALPHAO1 91 = -2.888 BETA0 (71) = 2.000

SECTION (11)PUS. + WPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.879 -2.856 -2.808 -2.748 -2.680

ALPHAO1 92 = -2.773 BETA0 (81) = 4.100

SECTION (11)PUS. + WPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2173 -2.2543 -2.2070 -2.2091 -2.2460

ALPHAO1 93 = -2.790 BETA0 (91) = 6.150

SECTION (11)PUS. + WPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2166 -2.2607 -2.2607 -2.2691 -2.2179

ALPHAO1 94 = -2.790 BETA0 (100) = 6.140

SECTION (11)PUS. + WPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2236 -2.2633 -2.2483 -2.2336 -2.2164

ALPHAO1 95 = -2.770 BETA0 (111) = 10.100

SECTION (11)PUS. + WPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2282 -2.2689 -2.2683 -2.2643 -2.2216

(R61C33)

ARC11-716 1A14 01+T12+S12E5+AT10 PUS+RUOPL BASE

ALPHAO1 00 = -.700 BETA0 (1) = -10.260

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2193 -.2468 -.3480 -.4629 -.3673

ALPHAO1 00 = -.730 BETA0 (2) = -8.420

SECTION (2) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2294 -.2499 -.3050 -.4202 -.3759

ALPHAO1 00 = -.730 BETA0 (3) = -6.290

SECTION (3) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2286 -.2463 -.2950 -.3910 -.3751

ALPHAO1 00 = -.710 BETA0 (4) = -4.140

SECTION (4) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2108 -.2460 -.2395 -.3393 -.3621

ALPHAO1 00 = -.700 BETA0 (5) = -2.080

SECTION (5) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2100 -.2477 -.2314 -.3420 -.3463



ARC11-716 1A14 CL-712-31263-ATT10 PUB-RUPTL BASE

(081C30)

ALPHA01 0 = -.700 BETA0 (0) = .000
 SECTION (1) P/B. + SPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2150 -.2300 -.2274 -.3212 -.3207

ALPHA01 0 = -.700 BETA0 (7) = 2.100
 SECTION (1) P/B. + SPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2147 -.2407 -.2264 -.3226 -.3073

ALPHA01 0 = -.700 BETA0 (8) = 4.270
 SECTION (1) P/B. + SPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2300 -.2400 -.2334 -.3064 -.2403

ALPHA01 0 = -.700 BETA0 (9) = 6.320
 SECTION (1) P/B. + SPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2222 -.2407 -.2226 -.4136 -.2222

ALPHA01 0 = -.700 BETA0 (10) = 8.130
 SECTION (1) P/B. + SPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
 .000 -.2225 -.2300 -.2174 -.4400 -.2257

ARC11-716 1A14 01-712-91262-AT10 PUB-RUOPL BASE

(R81C33)

ALPHAX 01 = -.750 BETA0 (11) = 10.110

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2227 -.2885 -.2377 -.4457 -.2336

ALPHAX 17 = 2.010 BETA0 (1) = -10.080

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2141 -.2883 -.3064 -.4420 -.3594

ALPHAX 17 = 2.000 BETA0 (2) = -9.040

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2202 -.2990 -.2957 -.4355 -.3631

ALPHAX 17 = 2.050 BETA0 (3) = -6.040

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2165 -.2891 -.2533 -.4046 -.3603

ALPHAX 17 = 1.980 BETA0 (4) = -3.990

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2048 -.2436 -.2137 -.3747 -.3636



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(R61C33)

ARC11-716 1A14 OUTLET-SIDES+AT10 PUSH+ROPL BASE

ALPHAO (7) = 1.000 BETA0 (9) = -2.000

SECTION (1) PUS. + REPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2011 -.2000 -.1977 -.3752 -.3943

ALPHAO (7) = 1.000 BETA0 (6) = .010

SECTION (1) PUS. + REPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2001 -.2001 -.1970 -.3427 -.3510

ALPHAO (7) = 1.000 BETA0 (7) = 2.000

SECTION (1) PUS. + REPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2049 -.2034 -.1929 -.3491 -.3523

ALPHAO (7) = 1.000 BETA0 (6) = 4.000

SECTION (1) PUS. + REPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2004 -.2004 -.2004 -.3495 -.2929

ALPHAO (7) = 2.040 BETA0 (9) = 6.740

SECTION (1) PUS. + REPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2100 -.2100 -.2115 -.4132 -.2482

(R81C33)

ARC11-716 1A14 04-112+81262+AT10 PUB+RUOPL BASE

ALPHAO1 7) = 2.000 BETA0 (10) = 9.110
 SECTION (1)PUB. + RFLAME BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0221 -.0208 -.0128 -.4548 -.2409
 ALPHAO1 7) = 2.300 BETA0 (11) = 10.150
 SECTION (1)PUB. + RFLAME BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0221 -.0203 -.0408 -.4578 -.2492
 ALPHAO1 8) = 4.300 BETA0 (1) = -9.900
 SECTION (1)PUB. + RFLAME BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0209 -.0204 -.0208 -.4478 -.3000
 ALPHAO1 8) = 4.200 BETA0 (2) = -9.000
 SECTION (1)PUB. + RFLAME BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0248 -.0208 -.0207 -.4458 -.3004
 ALPHAO1 9) = 4.500 BETA0 (3) = -5.990
 SECTION (1)PUB. + RFLAME BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0125 -.0208 -.0220 -.4032 -.3019
 SECTION (1)PUB. + RFLAME BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000



ARC11-716 1A14 01-712-61263-AT10 PUB-RUDPL BASE

(R01C33)

ALPHAO1 01 = 4.200 BETA0 (4) = -3.970

SECTION (1) P.S. * RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.0000 -0.2207 -0.1910 -0.3006 -0.3066

ALPHAO1 01 = 4.200 BETA0 (5) = -2.000

SECTION (1) P.S. * RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.0017 -0.2229 -0.1950 -0.3045 -0.3072

ALPHAO1 01 = 4.240 BETA0 (6) = -0.070

SECTION (1) P.S. * RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1000 -0.2232 -0.1909 -0.3000 -0.3006

ALPHAO1 01 = 4.220 BETA0 (7) = 1.900

SECTION (1) P.S. * RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.0000 -0.2200 -0.1957 -0.3040 -0.3013

ALPHAO1 01 = 4.400 BETA0 (8) = 4.100

SECTION (1) P.S. * RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1970 -0.2200 -0.2201 -0.3006 -0.2770

(R61C53)

ARC11-716 1A14 06+712+51263+AT10 PUB+RUDPL BASE

ALPHAO1 0) = 4.410 BETA0 (9) = 0.000

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2044 -.2478 -.2340 -.4274 -.2395

ALPHAO1 0) = 4.410 BETA0 (10) = 0.150

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2142 -.2645 -.2399 -.4983 -.2520

ALPHAO1 0) = 4.300 BETA0 (11) = 10.140

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2146 -.2718 -.2665 -.4681 -.2475

ALPHAO1 0) = 0.340 BETA0 (1) = -9.940

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2100 -.2703 -.2590 -.4483 -.2935

ALPHAO1 0) = 6.300 BETA0 (2) = -7.970

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2104 -.2709 -.2402 -.4499 -.3264

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(R81C33)

ARC11-716 1A14 OR-TIE-SYSTEMS-AT10 PUB-WRDFL BASE

ALPHAOX 9) = 5.960 BETA0 (3) = -6.000

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2107 -.2982 -.2219 -.4078 -.3066

ALPHAOX 9) = 5.960 BETA0 (4) = -4.010

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2012 -.2437 -.1966 -.3061 -.3067

ALPHAOX 9) = 6.010 BETA0 (5) = -2.050

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0029 -.2427 -.1521 -.3061 -.4015

ALPHAOX 9) = 6.020 BETA0 (6) = .050

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2019 -.2241 -.1834 -.3758 -.3796

ALPHAOX 9) = 6.010 BETA0 (7) = 2.040

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2049 -.2402 -.1872 -.3035 -.3279

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081C33)

ARC11-716 1A14 ORIENTATION PUS-RUDPL BASE

ALPHAOX 9) = 9.960 BETA0 (9) = 4.060
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1046 -.2303 -.2242 -.3004 -.2043

ALPHAOX 9) = 9.960 BETA0 (9) = 6.050
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0047 -.2313 -.2346 -.4369 -.2050

ALPHAOX 9) = 9.970 BETA0 (10) = 9.160
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0091 -.2083 -.2370 -.4999 -.2334

ALPHAOX 9) = 9.970 BETA0 (11) = 10.160
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2183 -.2379 -.2300 -.4656 -.2308

ALPHOX100 = 7.910 BETA0 (1) = -10.030
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2178 -.2091 -.2908 -.4408 -.2006



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MCC11-716 1A14 01718-81083-AT10 P10-M10PL BASE

ALPHAO118) = 7.938 BETA0 (2) = -8.000

SECTION (1) P10. * REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2100 -.2773 -.2408 -.4554 -.3009

ALPHAO118) = 7.910 BETA0 (3) = -5.970

SECTION (1) P10. * REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2125 -.2006 -.2282 -.4136 -.4148

ALPHAO118) = 7.830 BETA0 (4) = -4.000

SECTION (1) P10. * REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2004 -.2137 -.2162 -.2076 -.4117

ALPHAO118) = 7.838 BETA0 (5) = -2.000

SECTION (1) P10. * REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2106 -.2484 -.1984 -.0018 -.4122

ALPHAO118) = 7.848 BETA0 (6) = .040

SECTION (1) P10. * REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2006 -.2203 -.1834 -.2076 -.3001

ARC11-716 1A14 01+T12+S12M5+AT10 PUS+RUOPL BASE

ALPHAO(10) = 7.930 BETA0 (7) = 2.040

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0070 2.0000 3.0000 4.0000 5.0000

.000 -.2086 -.2447 -.1925 -.3902 -.3307

ALPHAO(10) = 7.670 BETA0 (8) = 4.060

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2009 -.2454 -.2321 -.4079 -.2514

ALPHAO(10) = 7.970 BETA0 (9) = 6.180

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2180 -.2717 -.2421 -.4469 -.2689

ALPHAO(10) = 7.960 BETA0 (10) = 6.110

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2154 -.2692 -.2577 -.4542 -.2570

ALPHAO(10) = 7.960 BETA0 (11) = 10.230

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2209 -.2933 -.2956 -.4742 -.2467

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(R01C33)

ARC11-716 1A14 01+712+512E3+AT10 PUS+RUOPTL BASE

ALPHAO(11) = 9.990 BETA0 (1) = -9.960

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2215 -0.2917 -0.2505 -0.4493 -0.3691

ALPHAO(11) = 9.990 BETA0 (2) = -7.920

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2187 -0.2825 -0.2383 -0.4568 -0.4010

ALPHAO(11) = 9.940 BETA0 (3) = -6.010

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2125 -0.2769 -0.2376 -0.4602 -0.4175

ALPHAO(11) = 9.890 BETA0 (4) = -3.990

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2098 -0.2628 -0.2170 -0.3991 -0.4190

ALPHAO(11) = 9.900 BETA0 (5) = -1.960

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2076 -0.2313 -0.1996 -0.4097 -0.4165

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ARC11-716 1A14 01+T12+12025+AT10 FUS+RUOFL BASE (R81C33)

ALPHA(11) = 9.910 BETA(6) = .20

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2096 -.2414 -.1903 -.4008 -.3993

ALPHA(11) = 9.900 BETA(7) = 2.040

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2115 -.2493 -.1971 -.4022 -.3469

ALPHA(11) = 9.900 BETA(8) = 4.130

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1998 -.2430 -.2396 -.4216 -.3040

ALPHA(11) = 9.880 BETA(9) = 6.100

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2076 -.2743 -.2463 -.4309 -.2776

ALPHA(11) = 9.870 BETA(10) = 6.110

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2110 -.2935 -.2365 -.4664 -.2619



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ARC11-718 1A14 01-712-51282-AT10 PUB-RUOPL BASE (RBIC33)

ALPHAO(11) = 10.000 BETA0 (11) = 10.190

SECTION (1) PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2219 -.2936 -.2963 -.4022 -.2433

ARC11-716 1A14 01+T18+SIENES+AT11 PUS+RUOFL BASE

(R01C34) (15 FEB 74)

REFERENCE DATA

SHIP = 2.4210 34.FT. SHIP = 29.5900 INCHES
 LREP = 36.7090 INCHES YMRP = .0000 INCHES
 ZREP = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAO(1) = -8.010 BETA0 (1) = -7.960

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
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.000 -0.2146 -0.2361 -0.3077 -0.2152 -0.0910

ALPHAO(1) = -7.960 BETA0 (2) = -3.960

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
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.000 -0.2006 -0.2292 -0.2916 -0.2503 -0.1313

ALPHAO(1) = -7.960 BETA0 (3) = .030

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
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.000 -0.1878 -0.2164 -0.2437 -0.3008 -0.2236

ALPHAO(1) = -8.000 BETA0 (4) = 4.090

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
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.000 -0.2002 -0.2266 -0.2969 -0.2047 -0.1293

PARAMETRIC DATA

MACH = .600 ELEVON = .000
 RUDDER = .000 SPOBRK = .000



MRC11-716 1A14 01-T12-SIGES-AT11 PUB-RUDPL BASE

(R81C34)

ALPHAO(1) = -0.080 BETAO (3) = 0.130

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2231 -0.2546 -0.2311 -0.3463 -0.0339

ALPHAO(2) = -4.050 BETAO (1) = -0.050

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2022 -0.2298 -0.2764 -0.2190 -0.0824

ALPHAO(2) = -4.050 BETAO (2) = -4.000

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2001 -0.2326 -0.2761 -0.2397 -0.1539

ALPHAO(2) = -4.050 BETAO (3) = 0.040

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1792 -0.2093 -0.2271 -0.2913 -0.2176

ALPHAO(2) = -4.080 BETAO (4) = 4.070

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2026 -0.2326 -0.2504 -0.1943 -0.1391

(81C34)

#C11-716 1A14 01+712+912M2+AT11 PUS+RUDPL BASE

ALPHA(2) = -4.080 BETA(3) = 0.090
 SECTION (1) PLS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2176 -.2318 -.2396 -.3311 -.0310

ALPHA(3) = -.310 BETA(1) = -8.030
 SECTION (1) PLS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1999 -.2209 -.2472 -.2173 -.0930

ALPHA(3) = -.360 BETA(2) = -4.010
 SECTION (1) PLS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1901 -.2099 -.2425 -.2102 -.1927

ALPHA(3) = -.360 BETA(3) = .030
 SECTION (1) PLS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1638 -.2004 -.2067 -.2209 -.2168

ALPHA(3) = -.270 BETA(4) = 4.080
 SECTION (1) PLS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1962 -.2399 -.2360 -.2067 -.1451

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ARC11-716 1A14 01+112+512E3+AT11 PUS-RUOPL BASE (RB1C34)

ALPHAO(3) = -.300 BETAO (5) = 0.110

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2106 -.2476 -.2270 -.3519 -.0351

ALPHAO(4) = 4.000 BETAO (1) = -8.050

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1826 -.2154 -.2380 -.1966 -.0966

ALPHAO(4) = 4.000 BETAO (2) = -3.990

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1826 -.1936 -.2490 -.1826 -.1561

ALPHAO(4) = 4.000 BETAO (3) = .030

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1779 -.2060 -.2296 -.2061 -.2105

ALPHAO(4) = 3.990 BETAO (4) = 4.000

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1793 -.2206 -.2596 -.2064 -.1471

(B1C54)

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ARC11-716 1A14 ORTIER-SIENS-AT11 PUS-RUDPL BASE

ALPHAO(4) = 3.900 BETAO (5) = 0.140
SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1902 -.2370 -.2224 -.3295 -.0207

ALPHAO(5) = 7.900 BETAO (1) = -0.010
SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1054 -.2110 -.2324 -.1060 -.1209

ALPHAO(5) = 7.900 BETAO (2) = -4.010
SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1706 -.1975 -.2309 -.1677 -.1695

ALPHAO(5) = 7.910 BETAO (3) = .040
SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1478 -.1953 -.1424 -.2412 -.1974

ALPHAO(5) = 7.900 BETAO (4) = 4.100
SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.1877 -.2164 -.2296 -.1965 -.1682

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ORR1C341

ARC11-716 1A14 01-712-51262-AT11 PUS-RUOPL BASE

ALPHA (S) = 7.000 BETA (S) = 0.170

SECTION (1) PUS. + REPLACE BASE DEFONANT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1823 -.2402 -.2226 -.3020 -.0363

MFC11-716 1A14 CL-712-312E3-AT11 PUS-RUDPL BASE

(MFC99) (15 FEB 74)

REFERENCE DATA

WOP = 2.4210 28.71. WHP = 29.3000 INCHES
 LWP = 28.7090 INCHES WHP = .0000 INCHES
 WOP = 28.7090 INCHES WHP = .0000 INCHES
 SCALE = .0000 SCALE

ALPHAOX (1) = -0.090 BETAO (1) = -0.000

SECTION (1) PLS. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2210 -0.2491 -0.2996 -0.4310 -0.5302

ALPHAOX (1) = -0.040 BETAO (2) = -3.990

SECTION (1) PLS. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2159 -0.2492 -0.2923 -0.4903 -0.2622

ALPHAOX (1) = -0.040 BETAO (3) = 0.040

SECTION (1) PLS. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.0222 -0.2390 -0.2910 -0.3337 -0.4643

ALPHAOX (1) = -0.090 BETAO (4) = 4.090

SECTION (1) PLS. + SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2220 -0.2390 -0.2910 -0.3064 -0.3716

PARAMETRIC DATA

MACH = .750 ELEVON = .000
 RUDDER = .000 SPOON = .000



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ARC11-716 1A14 01+T12+SI2E3+AT11 PUS+RUOPL BASE (BRIC33)

ALPHAO(1) = -0.000 BETA0 (2) = 0.130

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0201 -.0209 -.0204 -.0370 -.0373

ALPHAO(2) = -4.070 BETA0 (1) = -0.040

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0228 -.0200 -.0230 -.0207 -.0229

ALPHAO(2) = -4.000 BETA0 (2) = -4.000

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0208 -.0209 -.0209 -.0135 -.0234

ALPHAO(2) = -4.000 BETA0 (2) = 0.00

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0236 -.0204 -.0206 -.0207 -.0274

ALPHAO(2) = -4.000 BETA0 (4) = 4.000

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0204 -.0207 -.0206 -.0209 -.0209

(R01C35)

ARC11-716 1A14 CA-712-81283-AT11 PLS-RUDL BASE

ALPHAO1 2) = -4.200 BETA0 (3) = 6.150

SECTION (1) PLS. + REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2246 -.2968 -.2430 -.4300 -.2275

ALPHAO1 3) = -.310 BETA0 (1) = -8.000

SECTION (1) PLS. + REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2008 -.3416 -.2378 -.3647 -.1936

ALPHAO1 3) = -.320 BETA0 (2) = -4.010

SECTION (1) PLS. + REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2008 -.2237 -.2378 -.3467 -.2408

ALPHAO1 3) = -.320 BETA0 (3) = .070

SECTION (1) PLS. + REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1997 -.2176 -.2044 -.4198 -.3709

ALPHAO1 3) = -.320 BETA0 (4) = 4.000

SECTION (1) PLS. + REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2175 -.2437 -.2468 -.3277 -.3203



ARC11-716 1A14 01-112-21262-AT11 PUB-RUDPL BASE

CR1C351

ALPHAO(3) = -.202 BETA(3) = 0.130
 SECTION (1)PUB. * REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0006 -.0377 -.0219 -.4137 -.1938
 ALPHAO(4) = 4.000 BETA(1) = -0.000
 SECTION (1)PUB. * REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1964 -.0275 -.0202 -.0027 -.1933
 ALPHAO(4) = 4.000 BETA(2) = -4.000
 SECTION (1)PUB. * REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1064 -.0073 -.0411 -.0216 -.0229
 ALPHAO(4) = 4.000 BETA(3) = .040
 SECTION (1)PUB. * REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1000 -.0115 -.0371 -.0007 -.0348
 ALPHAO(4) = 4.040 BETA(4) = 5.100
 SECTION (1)PUB. * REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1005 -.0205 -.0202 -.0400 -.0205

(RB1C55)

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ARC11-716 1A14 01-T12-S12M2-AT11 FUS+RUOPL BASE

ALPHAO(4) = 4.00X BETAO (5) = 0.160

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2036 -.2399 -.2244 -.4041 -.1806

ALPHAO(5) = 7.930 BETAO (1) = -8.040

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1756 -.2154 -.2280 -.2965 -.1766

ALPHAO(5) = 7.940 BETAO (2) = -4.000

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1740 -.1982 -.2191 -.2815 -.2183

ALPHAO(5) = 7.940 BETAO (3) = .030

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1818 -.1967 -.2169 -.3146 -.3117

ALPHAO(5) = 7.930 BETAO (4) = 4.110

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1810 -.2212 -.1990 -.2424 -.2334

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(R01C55)

ARC11-716 1A14 0A+T12+SIENS+AT11 PUS+RUOPL BASE

ALPHA(5) = 7.980 BETA(5) = 0.180

SECTION (5) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1799 -.2537 -.2156 -.4010 -.1794

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ARC11-716 1A14 01+112+512E5+AT11 PUS+RUOPL BASE

PARAMETRIC DATA

MACH = .850 ELEVON = .000
RUDDER = .000 SPODRK = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 29.5000 INCHES
LREF = 36.7090 INCHES YMRP = .0000 INCHES
BREF = 36.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0500 SCALE

ALPHA(1) = -8.120 BETA(1) = -8.000

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2292 -.2611 -.3031 -.6444 -.2862

ALPHA(1) = -8.110 BETA(2) = -3.970

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2351 -.2654 -.2921 -.6226 -.6062

ALPHA(1) = -8.070 BETA(3) = .010

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2401 -.2755 -.2964 -.6766 -.6650

ALPHA(1) = -8.080 BETA(4) = 4.090

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2669 -.2893 -.2932 -.9237 -.6324



ARC11-716 1A14 01+712+S12H25+AT11 FUS+RUOPL BASE

(RBIC96)

ALPHAO(1) = -8.100 BETAO (5) = 8.100

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2462 -.2599 -.2713 -.2029 -.3954

ALPHAO(2) = -3.990 BETAO (1) = -8.050

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2549 -.2679 -.2937 -.6290 -.3109

ALPHAO(2) = -3.990 BETAO (2) = -3.990

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2246 -.2313 -.2660 -.2695 -.5709

ALPHAO(2) = -3.990 BETAO (3) = .060

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2290 -.2910 -.2741 -.6000 -.6400

ALPHAO(2) = -3.990 BETAO (4) = 4.070

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2412 -.2662 -.2785 -.4842 -.5996

(M81C36)

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ARC11-718 1A14 01+T12+S12E2-A111 PUS+RUDPL BASE

ALPHAO(2) = -4.000 BETA0 (5) = 6.110

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2350 -.2367 -.2752 -.4636 -.3260

ALPHAO(3) = -.310 BETA0 (1) = -8.050

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2252 -.2613 -.2672 -.3718 -.2943

ALPHAO(3) = -.320 BETA0 (2) = -3.990

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2110 -.2353 -.2375 -.3222 -.4907

ALPHAO(3) = -.330 BETA0 (3) = .040

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2208 -.2427 -.2716 -.3555 -.3937

ALPHAO(3) = -.330 BETA0 (4) = 6.130

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2169 -.2398 -.2460 -.4761 -.2692



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ARC11-716 1A14 01+112+SIEN9+AT11 PUS+RUOPL BASE (R81C36)

ALPHAO(4) = 3.810 BETAO (1) = -4.010

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1940 -0.2296 -0.2544 -0.4720 -0.4041

ALPHAO(4) = 3.810 BETAO (2) = .040

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1964 -0.2267 -0.2339 -0.2601 -0.5394

ALPHAO(4) = 3.800 BETAO (3) = 4.090

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1962 -0.2346 -0.2149 -0.3713 -0.4622

ALPHAO(4) = 3.780 BETAO (4) = 8.160

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2074 -0.2312 -0.2356 -0.4606 -0.2273

ALPHAO(9) = 7.940 BETAO (1) = .030

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.1668 -0.2195 -0.2226 -0.4742 -0.4368

ARC11-716 1A14 08-712-SIEMENS-AT11 PUS-RUDPL BASE (RB1C36)

ALPHAX (5) = 7.930 BETA (2) = 4.130

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1942 -.2226 -.2084 -.3225 -.3448

ALPHAX (5) = 7.910 BETA (3) = 8.190

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1943 -.2245 -.2298 -.4775 -.2403



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ARC11-716 1A14 01+T12+S12M5+AT11 PUS+RUOPL BASE

PARAMETRIC DATA

MACH = .930 ELEVON = .000
RUDDER = .000 SPOKER = .000

REFERENCE DATA

WHP = 2.4210 24.17. YMRP = 29.2600 INCHES
LWRP = 36.7000 INCHES YMRP = .0000 INCHES
WRP = 36.7000 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHAO (1) = -0.000 BETA (1) = -3.960

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2646 -.3100 -.3540 -.6757 -.6808

ALPHAO (1) = -0.020 BETA (2) = .040

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3021 -.3310 -.3404 -.7018 -.6458

ALPHAO (1) = -0.070 BETA (3) = 4.090

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2932 -.2990 -.3467 -.9105 -.5493

ALPHAO (1) = -0.100 BETA (4) = 0.150

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2528 -.2565 -.2864 -.6282 -.5409

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ARC11-716 1A114 OUTSIDE*AT11 PUS*RUOPL BASE

081C371

ALPHAX (2) = -4.080 BETA (1) = -8.040
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2582 -.3041 -.3493 -.7298 -.5346
 ALPHAX (2) = -4.080 BETA (2) = -4.020
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2681 -.3080 -.3357 -.6962 -.6692
 ALPHAX (2) = -4.040 BETA (3) = .010
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2796 -.3099 -.3225 -.7085 -.6366
 ALPHAX (2) = -4.080 BETA (4) = 4.070
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2725 -.2976 -.3102 -.6371 -.5716
 ALPHAX (2) = -4.110 BETA (5) = 6.110
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2491 -.2846 -.3007 -.6228 -.5491



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ARC11-716 1A14 01-115-SIDES*AT11 PUS*RUOPL BASE (M61C37)

ALPHAO (3) = -.310 BETAO (1) = -8.040

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2035 -.3106 -.3396 -.7983 -.5330

ALPHAO (3) = -.380 BETAO (2) = -4.000

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2082 -.3024 -.3250 -.6819 -.6880

ALPHAO (3) = -.380 BETAO (3) = .040

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2084 -.3141 -.3143 -.7264 -.6458

ALPHAO (3) = -.380 BETAO (4) = 4.000

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2026 -.2949 -.2949 -.6360 -.5865

ALPHAO (3) = -.330 BETAO (5) = 8.130

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2436 -.2756 -.2983 -.6881 -.5344

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ARC11-718 1A14 01-718-SIZES+AT11 PUS+RUOPL BASE

(R61C37)

ALPHAO1 4) = 4.030 BETAO (1) = -6.060

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2500 -.3034 -.3243 -.7375 -.5044

ALPHAO1 4) = 4.030 BETAO (2) = -4.010

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2426 -.2750 -.3075 -.6421 -.9327

ALPHAO1 4) = 4.030 BETAO (3) = .030

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2061 -.2937 -.2923 -.6043 -.6423

ALPHAO1 4) = 4.030 BETAO (4) = 4.100

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2453 -.2754 -.2703 -.6071 -.5796

ALPHAO1 4) = 4.010 BETAO (5) = 6.140

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2334 -.2708 -.2923 -.7039 -.5146



ALPHAO1 (1) = 7.940 BETA0 (1) = -8.030

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2200 -.2155 -.2194 -.1708 -.3943

ALPHAO1 (2) = 7.940 BETA0 (2) = -4.010

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2484 -.2086 -.2837 -.0175 -.4844

ALPHAO1 (3) = 7.940 BETA0 (3) = .040

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2209 -.2463 -.2023 -.3103 -.1931

ALPHAO1 (4) = 7.920 BETA0 (4) = 4.110

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2432 -.2191 -.2195 -.2817 -.3109

ALPHAO1 (5) = 7.920 BETA0 (5) = 8.180

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2161 -.2192 -.2171 -.0641 -.3632

AFCS11-716 1A14 04-712-312MS-A111 PUR-RUDPL BASE

(B1C38) (15 FEB 74)

REFERENCE DATA

WRF = 2.4210 10. FT. WHP = 29.3600 INCHES
 LWF = 26.7090 INCHES WHP = .0000 INCHES
 WRF = 26.7090 INCHES WHP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.090 ELEVON = .000
 .LODER = .000 SPODRK = .000

ALPHAX (1) = -0.000 BETA0 (1) = -0.000

SECTION (1) PLS. * REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3040 -0.3913 -0.4109 -0.0813 -0.9407

ALPHAX (1) = -0.070 BETA0 (2) = -4.000

SECTION (1) PLS. * REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3149 -0.3373 -0.3964 -0.9901 -0.3362

ALPHAX (1) = -0.000 BETA0 (3) = .000

SECTION (1) PLS. * REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3027 -0.3944 -0.3601 -0.9436 -0.4901

ALPHAX (1) = -0.070 BETA0 (4) = 4.120

SECTION (1) PLS. * REPLACE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3103 -0.3397 -0.3429 -0.9301 -0.4507



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REC11-716 1A14 OUTLET-SIDESWATH11 PUS-WRDP/L BASE

(R81C38)

ALPHAO(1) = -0.100 BETA0 (3) = 0.100
SECTION (1) PUS. + REPLACE BASE DEFODORF VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2835 -.3825 -.3009 -.2940 -.2976

ALPHAO(2) = -4.000 BETA0 (1) = -0.040
SECTION (1) PUS. + REPLACE BASE DEFODORF VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.3187 -.3413 -.4048 -.6424 -.5493

ALPHAO(2) = -4.000 BETA0 (2) = -4.000
SECTION (1) PUS. + REPLACE BASE DEFODORF VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.3005 -.3819 -.3399 -.2397 -.2984

ALPHAO(2) = -4.000 BETA0 (3) = .040
SECTION (1) PUS. + REPLACE BASE DEFODORF VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.3178 -.3370 -.3466 -.5502 -.4987

ALPHAO(2) = -4.000 BETA0 (4) = 4.000
SECTION (1) PUS. + REPLACE BASE DEFODORF VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2840 -.3162 -.3160 -.2805 -.4497

ARC11-716 1A14 01+T12+S12K25+AT11 PUS+RUOPL BASE

(RB1C36)

ALPHA(2) = -4.100 BETA(2) = 0.120

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2776 -.3173 -.3243 -.5963 -.4011

ALPHA(3) = -.310 BETA(1) = -8.040

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3011 -.3367 -.3941 -.6469 -.5590

ALPHA(3) = -.320 BETA(2) = -4.010

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2934 -.3196 -.3440 -.5374 -.5823

ALPHA(3) = -.330 BETA(3) = .040

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3020 -.3265 -.3374 -.5640 -.5235

ALPHA(3) = -.320 BETA(4) = 4.050

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2762 -.3196 -.3143 -.5484 -.4714

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(RDC138)

ARC11-716 1A14 01+T12+S12E3+AT11 FUS+RUOPL BASE

ALPHAO(3) = -.330 BETAO (5) = 6.130

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2088 -.3145 -.3234 -.6085 -.4230

ALPHAO(4) = 4.020 BETAO (1) = -8.050

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2013 -.3320 -.3916 -.6322 -.5357

ALPHAO(4) = 4.020 BETAO (2) = -4.020

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2030 -.3149 -.3191 -.5625 -.6019

ALPHAO(4) = 4.020 BETAO (3) = .030

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2036 -.3167 -.3395 -.5665 -.5796

ALPHAO(4) = 4.010 BETAO (4) = 4.110

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2028 -.3017 -.2965 -.5671 -.4696

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ALPHA(4) = 4.000 BETA(5) = 6.160
 SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2540 -.2937 -.3163 -.6174 -.4332

ALPHA(5) = 7.930 BETA(1) = -6.010
 SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2635 -.3196 -.3405 -.6464 -.4929

ALPHA(5) = 7.930 BETA(2) = -3.990
 SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2766 -.3091 -.3117 -.5996 -.2930

ALPHA(5) = 7.930 BETA(3) = .040
 SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2762 -.3126 -.3233 -.6109 -.5516

ALPHA(5) = 7.930 BETA(4) = 4.110
 SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2412 -.2900 -.2962 -.5900 -.5013



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ARC11-716 1A14 01+T12+S12E29+AT11 PUS+RUOFL BASE (R01C38)

ALPHAO(5) = 7.810 BETMO (5) = 8.200

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2719 -.3256 -.3369 -.6373 -.4272

ARC11-716 1A14 0A+112+S12M25+AT11 FUS+RUOFL BASE

(RB1C39) (15 FEB 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 29.5600 INCHES
 LREF = 36.7090 INCHES YMRP = .0000 INCHES
 BREF = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH = 1.150 ELEVON = .000
 RUDDER = .000 SPOPRK = .000

ALPHAO(1) = -8.110 BETAO (1) = -6.020

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
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.000 -0.2976 -0.3165 -0.4214 -0.4943 -0.4197

ALPHAO(1) = -8.100 BETAO (2) = -4.000

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -0.2926 -0.3131 -0.3932 -0.4072 -0.4034

ALPHAO(1) = -8.050 BETAO (3) = .030

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -0.3026 -0.3218 -0.3750 -0.4007 -0.3450

ALPHAO(1) = -8.100 BETAO (4) = 4.060

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -0.2829 -0.3199 -0.3432 -0.4143 -0.2926

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ARC11-713 1A14 01+112+12E25+AT11 PUS+RUOPL BASE (RB1C39)

ALPHAO(1) = -0.130 BETAO (5) = 0.160

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2841 -.2884 -.3046 -.3166 -.2741

ALPHAO(2) = -4.100 BETAO (1) = -0.030

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2844 -.3112 -.4006 -.5116 -.4426

ALPHAO(2) = -4.110 BETAO (2) = -4.010

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2747 -.2932 -.3516 -.4234 -.4332

ALPHAO(2) = -4.110 BETAO (3) = .040

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2823 -.3053 -.3304 -.4232 -.3661

ALPHAO(2) = -4.110 BETAO (4) = 4.170

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2886 -.3044 -.3014 -.4373 -.3194

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ARC11-716 1A14 01-112-312E5+AT11 FUS+RUOFL BASE (RBIC59)

ALPHAO(2) = -4.130 BETAO (5) = 6.110
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2495 -.2760 -.2695 -.5212 -.2870

ALPHAO(3) = -.330 BETAO (1) = -4.020
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2754 -.2909 -.3171 -.4464 -.4609

ALPHAO(3) = -.330 BETAO (2) = .040
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2662 -.2667 -.3326 -.4336 -.3926

ALPHAO(3) = -.340 BETAO (3) = 4.070
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2624 -.3034 -.2972 -.4982 -.3420

ALPHAO(3) = -.340 BETAO (4) = 8.140
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2287 -.2636 -.2841 -.5466 -.3200

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(MB1C39)

ARC11-716 1A14 01-71E-S12E5HAT11 PUS-RUDPL BASE

ALPHAX(4) = 4.010 BETA(1) = -8.060

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
	.000	-.2854	-.2892	-.3290	-.5426
					-.4743

ALPHAX(4) = 4.010 BETA(2) = -4.010

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
	.000	-.2875	-.2880	-.3147	-.4856

ALPHAX(4) = 4.000 BETA(3) = .090

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
	.000	-.2808	-.2903	-.3166	-.4549
					-.4279

ALPHAX(4) = 4.000 BETA(4) = 4.100

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
	.000	-.2312	-.2768	-.2861	-.4801
					-.3929

ALPHAX(4) = 3.990 BETA(5) = 9.140

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
	.000	-.2446	-.2768	-.2768	-.5510
					-.3379

ARC11-716 1A14 01-716-512825-AT11 PUS-RUOPL BASE (M81C39)

ALPHA(5) = 7.920 BETA(1) = -0.030

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -0.2902 -0.3026 -0.3135 -0.5467 -0.4546

ALPHA(5) = 7.930 BETA(2) = -3.990

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -0.2572 -0.2909 -0.3096 -0.4654 -0.5101

ALPHA(5) = 7.930 BETA(3) = 0.640

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -0.2504 -0.2907 -0.3067 -0.4654 -0.4926

ALPHA(5) = 7.930 BETA(4) = 4.120

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -0.2135 -0.2379 -0.2669 -0.4179 -0.3909

ALPHA(5) = 7.910 BETA(5) = 0.200

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -0.2436 -0.2694 -0.2937 -0.5436 -0.3536



ARC11-716 1A14 01-TIE-SIZEN=AT11 PUS-RUOPL BASE

(R81C40) (15 FEB 74)

REFERENCE DATA

BRP = 2.4210 30.FT. WRP = 29.3400 INCHES
 LRP = 36.7090 INCHES WTP = .0000 INCHES
 BRP = 36.7090 INCHES WRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.920 BETA(1) = -0.040

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2261 -0.2374 -0.3293 -0.2729 -0.2489

ALPHA(1) = -7.910 BETA(2) = -4.000

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2414 -0.2737 -0.3650 -0.2539 -0.2460

ALPHA(1) = -7.900 BETA(3) = .050

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2300 -0.2719 -0.3355 -0.1929 -0.1680

ALPHA(1) = -7.910 BETA(4) = 4.100

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2334 -0.2624 -0.3133 -0.2375 -0.1216

PARAMETRIC DATA

NACH = 1.400 ELEVON = .000
 RUOBR = .000 SPOBRK = .000

(B51C40)

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ARC11-716 1A14 01+712+5125+AT11 PLUS+RUDPL BASE

ALPHAX (1) = -8.000 BETA0 (3) = 8.190

SECTION (1) PLUS. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2163 -.2557 -.2615 -.2926 -.1073

ALPHAX (2) = -4.010 BETA0 (1) = -8.090

SECTION (1) PLUS. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2236 -.2399 -.3196 -.2642 -.2635

ALPHAX (2) = -4.010 BETA0 (2) = -4.020

SECTION (1) PLUS. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2386 -.2641 -.3119 -.2302 -.2730

ALPHAX (2) = -3.930 BETA0 (3) = .030

SECTION (1) PLUS. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2427 -.2704 -.3068 -.2247 -.2164

ALPHAX (2) = -3.940 BETA0 (4) = 4.100

SECTION (1) PLUS. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2290 -.2603 -.2385 -.2613 -.1466

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(R01C40)

ARC11-716 1A14 CH-T12-S12H2-AT11 1-JS-RUDPL BASE

ALPHAOX 2) = -3.920 BETA0 (3) = 6.120

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2345 -.2781 -.2374 -.3190 -.1363

ALPHAOX 3) = -.370 BETA0 (1) = -8.090

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2224 -.2376 -.2995 -.2998 -.2754

ALPHAOX 3) = -.360 BETA0 (2) = -4.080

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2345 -.2482 -.2799 -.2642 -.2904

ALPHAOX 3) = -.360 BETA0 (3) = .080

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2299 -.2330 -.2601 -.2394 -.2397

ALPHAOX 3) = -.360 BETA0 (4) = 4.080

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2279 -.2340 -.2342 -.2840 -.1623

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ARC11-716 1A14 CRT12-SIENS-AT11 PLS-RUDPL BASE (R81C40)

ALPHA(3) = -.360 BETA(3) = 8.140
SECTION (1) PLS. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2216 -.2269 -.2299 -.2296 -.1509

ALPHA(4) = 4.080 BETA(1) = -8.080
SECTION (1) PLS. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2201 -.2261 -.2241 -.2175 -.2297

ALPHA(4) = 4.080 BETA(2) = -4.080
SECTION (1) PLS. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2234 -.2231 -.2236 -.2260 -.2021

ALPHA(4) = 4.080 BETA(3) = .030
SECTION (1) PLS. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2130 -.2292 -.2208 -.2104 -.2154

ALPHA(4) = 4.040 BETA(4) = 4.080
SECTION (1) PLS. + RPLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0700 2.0000 3.0000 4.0000 5.0000

.000 -.2130 -.2298 -.2150 -.2119 -.2120



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ARC11-716 1A14 01-715-51825-AT11 PUB-RUNFL BASE (MSIC40)

ALPHAOX 01 = 4.000 BETA0 (5) = 0.100
SECTION (1)PUB. * RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2167 -.0005 -.0287 -.3917 -.1770
ALPHAOX 01 = 0.000 BETA0 (1) = -0.0007

SECTION (1)PUB. * RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2335 -.0042 -.0238 -.3300 -.0709
ALPHAOX 01 = 7.900 BETA0 (2) = -4.010

SECTION (1)PUB. * RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2348 -.0019 -.0087 -.3047 -.3138
ALPHAOX 01 = 7.910 BETA0 (3) = .030

SECTION (1)PUB. * RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2091 -.0273 -.0197 -.0930 -.0507
ALPHAOX 01 = 0.000 BETA0 (4) = 0.210

SECTION (1)PUB. * RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2138 -.0702 -.0706 -.3673 -.1082

ARC11-716 1A14 01-712-512MS

FUS+RUOPL BASE

(RBIC41) (15 FEB 74)

REFERENCE DATA

REF = 2.4210 90.FT. XMRP = 29.5800 INCHES
 LREF = 36.7090 INCHES YMRP = .0000 INCHES
 BREF = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAO(1) = -7.940 BETAO (1) = .020

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -.1923 -.2132 -.2969 -.3077 -.2162

ALPHAO(1) = -7.950 BETAO (2) = 4.080

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -.2047 -.2347 -.2665 -.1514 -.1104

ALPHAO(1) = -7.970 BETAO (3) = 6.150

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -.2097 -.2342 -.2162 -.1769 -.0094

ALPHAO(2) = -4.090 BETAO (1) = -6.030

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -.2096 -.2314 -.3216 -.2066 -.0916

PARAMETRIC DATA

MACH = .600 ELEVON = .000
 RUDDER = .000 SPOBRK = .000



(R01C41)

FUS+RUDPL BASE

ARC11-716 1A14 01+T12+S12R25

ALPHAO (2) = -4.050 BETAO (2) = -4.020

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2006 -.2212 -.2392 -.2415 -.1403

ALPHAO (2) = -4.050 BETAO (3) = .030

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1915 -.2124 -.2349 -.2682 -.2251

ALPHAO (2) = -3.950 BETAO (4) = 4.070

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2059 -.2369 -.2620 -.1996 -.1907

ALPHAO (2) = -3.950 BETAO (5) = 6.110

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2010 -.2351 -.2517 -.1582 -.0188

ALPHAO (3) = -.310 BETAO (1) = -6.040

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2064 -.2295 -.3090 -.2286 -.0961

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(R81C41)

PUS-RUOFL BASE

ARC11-716 1A14 01+712+312MS

ALPHAO(3) = -.320 BETAO (2) = -4.020

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1947 -.2162 -.2786 -.2162 -.1463

ALPHAO(3) = -.320 BETAO (3) = .040

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1656 -.2027 -.2722 -.2678 -.2171

ALPHAO(3) = -.330 BETAO (4) = 4.080

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1910 -.2224 -.2991 -.1641 -.1359

ALPHAO(3) = -.330 BETAO (5) = 6.140

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1990 -.2369 -.2662 -.1609 -.0090

ALPHAO(4) = 4.130 BETAO (1) = -6.050

SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1965 -.2216 -.2756 -.2222 -.0679



ARC11-716 1A14 01+T18+S18S5

FUS+RUOFL BASE

(R81C41)

ALPHAO(4) = 4.130 BETAO (2) = -4.010

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1842 -.2090 -.2724 -.1822 -.1994

ALPHAO(4) = 4.130 BETAO (3) = .080

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1795 -.1956 -.2335 -.2409 -.2065

ALPHAO(4) = 4.120 BETAO (4) = 4.080

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1794 -.2072 -.2901 -.1499 -.1437

ALPHAO(4) = 4.110 BETAO (5) = 6.150

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1864 -.2363 -.2574 -.1485 -.0046

ALPHAO(5) = 7.990 BETAO (1) = -8.000

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1980 -.2186 -.2579 -.1811 -.1245

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ALPHA(5) = 8.000 BETA(2) = -4.010

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1666 -.1964 -.2273 -.1954 -.1721

ALPHA(5) = 8.000 BETA(3) = .010

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1672 -.1696 -.2077 -.2186 -.1922

ALPHA(5) = 7.870 BETA(4) = 8.180

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1665 -.2354 -.2600 -.1296 -.0134



PARAMETRIC DATA

MACH = .750 ELEVON = .000
RUDDER = .000 SPODRK = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 29.5800 INCHES
LREF = 36.7090 INCHES YMRP = .0000 INCHES
BREF = 36.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.990 BETA(1) = -8.000

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2290 -.2540 -.3404 -.4988 -.2129

ALPHA(1) = -7.780 BETA(2) = -3.990

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2178 -.2341 -.3306 -.4261 -.2394

ALPHA(1) = -7.780 BETA(3) = .040

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2123 -.2327 -.3128 -.5102 -.4262

ALPHA(1) = -7.790 BETA(4) = 4.090

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2036 -.2307 -.2480 -.3262 -.3241

AHC11-716 1A14 01+T12+S12R25

FUS+RUOFL BASE

(R81C42)

ALPHAO(1) = -7.970 BETAO (9) = 0.160

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2015 -0.2328 -0.2125 -0.3512 -0.2006

ALPHAO(2) = -4.020 BETAO (1) = -0.060

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2311 -0.2459 -0.3376 -0.4496 -0.2096

ALPHAO(2) = -4.030 BETAO (2) = -4.030

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2179 -0.2332 -0.3074 -0.3766 -0.2371

ALPHAO(2) = -4.040 BETAO (3) = 0.040

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2150 -0.2279 -0.3009 -0.4721 -0.4082

ALPHAO(2) = -4.040 BETAO (4) = 4.070

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2105 -0.2322 -0.2860 -0.3155 -0.3065



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PUS-RUOPL BASE (R01C42)

ARC11-716 1A14 01+112+312625

ALPHAO(2) = -4.040 BETA(3) = 0.130
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2098 -.2396 -.2317 -.3141 -.1627

ALPHAO(3) = -.360 BETA(1) = -0.06C
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2196 -.2444 -.3233 -.4147 -.1856

ALPHAO(3) = -.340 BETA(2) = -4.010
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2100 -.2364 -.2937 -.3396 -.2262

ALPHAO(3) = -.340 BETA(3) = .030
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2093 -.2245 -.2842 -.4280 -.3723

ALPHAO(3) = -.350 BETA(4) = 4.090
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2031 -.2340 -.2899 -.2329 -.2837

(R81C42)

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FUS-HUDPL BASE

ARC11-716 1A14 04-71E-S1E25

ALPHAO(3) = -.340 BETAO (5) = 0.160

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2093 -.2417 -.2445 -.2829 -.1584

ALPHAO(4) = 4.220 BETAO (1) = -0.060

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2118 -.2297 -.2865 -.3635 -.1793

ALPHAO(4) = 4.210 BETAO (2) = -4.030

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1997 -.2123 -.2738 -.2462 -.2193

ALPHAO(4) = 4.218 BETAO (3) = .030

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1993 -.2082 -.2496 -.3619 -.3299

ALPHAO(4) = 4.800 BETAO (4) = 4.090

SECTION (1)PUB. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1918 -.2232 -.2839 -.2536 -.2463

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(R81C4E)

PUS+RUP+L BASE

ARC11-716 1A14 01+712+SIDES

ALPHAO(4) = 4.190 BETAO (5) = 0.160
 SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1940 -.2397 -.2279 -.2401 -.1171
 ALPHAO(5) = 0.070 BETAO (1) = -0.090
 SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2005 -.2216 -.2061 -.3217 -.1822
 ALPHAO(5) = 0.067 BETAO (2) = -3.990
 SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1818 -.2116 -.2367 -.2350 -.2176
 ALPHAO(5) = 7.970 BETAO (3) = .090
 SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1793 -.2013 -.2215 -.3179 -.3121
 ALPHAO(5) = 7.960 BETAO (4) = 4.130
 SECTION (1)PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1774 -.2111 -.2749 -.2298 -.2368

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(MBIC42)

PUS-RUOPT BASE

ARC11-716 1A14 01-712-312M25

ALPHAO (S) = 7.940 BPTNO (S) = 0.220

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1901 -.2469 -.2367 -.2172 -.1292



081243) (19 FEB 74)

PUS-RUDPL BASE

MC11-716 1A14 CR+T12+SIENES

PARAMETRIC DATA

MACH = .830 ELEVON = .000
RUDDER = .000 SPOONK = .000

REFERENCE DATA

SEEF = 2.4210 30.FT. 100P = 29.9000 INCHES
LREF = 30.7090 INCHES YMRP = .0000 INCHES
BREF = 30.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHA(1) = -7.890 BETA(1) = -0.050

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2555 -.2808 -.3309 -.3831 -.2922

ALPHA(1) = -7.790 BETA(2) = -4.000

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2463 -.2884 -.3303 -.3817 -.0248

ALPHA(1) = -7.790 BETA(3) = .040

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2303 -.2724 -.3143 -.3590 -.0640

ALPHA(1) = -7.650 BETA(4) = 4.110

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2372 -.2890 -.3413 -.3954 -.0217

(R01C43)

PUS-RUOPL BASE

MC11-716 1A14 01+12+SIEMES

ALPHAX(1) = -7.090 BETA0 (5) = 0.170
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2506 -.2790 -.2713 -.5402 -.3323

ALPHAX(2) = -3.040 BETA0 (1) = -0.080
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2603 -.2792 -.3964 -.5302 -.2857

ALPHAX(2) = -3.090 BETA0 (2) = -4.020
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2446 -.2046 -.3233 -.0101 -.3031

ALPHAX(2) = -3.040 BETA0 (3) = .030
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2377 -.2372 -.3131 -.0973 -.6434

ALPHAX(2) = -3.090 BETA0 (4) = 4.090
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2506 -.2592 -.2923 -.5194 -.5634



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ARC11-716 1A14 01-TIER-51825 PUS-RUDPL BASE (081C43)

ALPHAO (2) = -3.900 BETAO (3) = 0.170
SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2450 -.2790 -.2956 -.3316 -.3103

ALPHAO (3) = -.310 BETAO (1) = -0.090

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2393 -.2802 -.3376 -.3199 -.2570

ALPHAO (3) = -.330 BETAO (2) = -0.040

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2308 -.2733 -.3047 -.3544 -.2413

ALPHAO (3) = -.340 BETAO (3) = .040

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2197 -.2402 -.2931 -.3123 -.2007

ALPHAO (3) = -.350 BETAO (4) = 4.090

SECTION (1) PUS. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2023 -.2463 -.2941 -.3799 -.3123

ALPHA(3) = -.340 BETA(5) = 6.150
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0790 -.2665 -.2722 -.4667 -.2692

ALPHA(4) = 4.130 BETA(1) = -6.090
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2236 -.2391 -.3043 -.4994 -.2634

ALPHA(4) = 4.050 BETA(2) = -4.020
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2010 -.2265 -.2743 -.3633 -.3650

ALPHA(4) = 4.050 BETA(3) = .030
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.070 -.1926 -.2174 -.2306 -.5905 -.5126

ALPHA(4) = 4.140 BETA(4) = 4.140
 SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2040 -.2326 -.2754 -.4063 -.4419

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(R81C43)

FUS+RUOFL BASE

ARC11-716 1A14 01+T12+312N25

ALPHA(4) = 4.190 BETA(5) = 6.190

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2148 -.2580 -.2465 -.3860 -.2289

ALPHA(5) = 6.040 BETA(1) = -6.070

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2096 -.2309 -.2627 -.5122 -.2078

ALPHA(5) = 6.010 BETA(2) = -4.020

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1943 -.2165 -.2404 -.3180 -.3216

ALPHA(5) = 6.010 BETA(3) = .090

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1897 -.2155 -.2275 -.5119 -.4457

ALPHA(5) = 6.000 BETA(4) = 4.130

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1690 -.2280 -.2686 -.3497 -.3704

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(RB1C43)

FUS*RUOFL BASE

ARC11-716 1A14 01+T12+312M5

ALPHA (5) = 0.090 BETA (5) = 6.250

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2090 -.2487 -.2548 -.3364 -.2299



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(RB1C44) (15 FEB 74)

FUS+RUOFL EASE

ARC11-716 1A14 01+112+S12M25

PARAMETRIC DATA

MACH = .900 ELEVON = .000
RUDDER = .000 SPOBRK = .000

REFERENCE DATA

SREF = 2.4210 50.FT. XMRP = 29.5000 INCHES
LREF = 36.7090 INCHES YMRP = .0000 INCHES
ZREF = 36.7090 INCHES ZMRP = .0000 INCHES
SCALE = .05000 SCALE

ALPHAO(1) = -7.970 BETAO (1) = -6.050

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2777 -.3057 -.3706 -.6442 -.3000

ALPHAO(1) = -7.960 BETAO (2) = -4.000

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2630 -.2943 -.3446 -.6260 -.6650

ALPHAO(1) = -7.960 BETAO (3) = .090

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2664 -.3064 -.3672 -.6953 -.6530

ALPHAO(1) = -7.970 BETAO (4) = 4.100

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2346 -.2654 -.3228 -.5549 -.6063

(RB1C44)

FUS-RUDPL BASE

ARC11-716 1A14 01+T12+S12N25

ALPHA(1) = -8.000 BETA(5) = 6.170

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2702 -.3096 -.2990 -.5693 -.5994

ALPHA(2) = -4.070 BETA(1) = -6.060

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2801 -.2945 -.3649 -.3937 -.4863

ALPHA(2) = -3.970 BETA(2) = -4.030

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2546 -.2687 -.3265 -.6553 -.9974

ALPHA(2) = -3.660 BETA(3) = .030

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2566 -.2612 -.3467 -.6967 -.6487

ALPHA(2) = -3.920 BETA(4) = 4.090

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2449 -.2736 -.3190 -.5766 -.6010



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(REIC44)

FUS-RUDPL BASE

ARC11-716 1A14 01+T12+S12E5

ALPHAO(2) = 1.930 BETAO (5) = 0.190

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2681 -.3053 -.2778 -.9946 -.5412

ALPHAO(3) = .040 BETAO (1) = -6.060

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2687 -.2641 -.3473 -.9930 -.4272

ALPHAO(3) = -.320 BETAO (2) = -4.030

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2478 -.2591 -.3187 -.6064 -.4775

ALPHAO(3) = -.320 BETAO (3) = .090

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2364 -.2612 -.3044 -.7046 -.6327

ALPHAO(3) = -.330 BETAO (4) = 4.100

SECTION (1)FUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2335 -.2602 -.3312 -.5940 -.5903

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ARC11-716 1A14 01-112-512-25

FUS-RUDFL BASE

(RB1C44)

ALPHAO(3) = -.336 BETAO (5) = 0.150

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2640 -.3044 -.2987 -.5717 -.5019

ALPHAO(4) = 4.200 BETAO (1) = -8.100

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2492 -.2706 -.3221 -.5754 -.3614

ALPHAO(4) = 4.190 BETAO (2) = -4.020

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2241 -.2433 -.2880 -.5070 -.4889

ALPHAO(4) = 4.060 BETAO (3) = .040

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2157 -.2356 -.2707 -.6549 -.5017

ALPHAO(4) = 4.100 BETAO (4) = 4.110

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2192 -.2435 -.3043 -.4959 -.5067



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(BIC44)

PUS+RUOPL BASE

ARC11-716 1A14 01+T12+S12K25

ALPHA(4) = 4.100 BETA(5) = 0.190

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2398 -.2855 -.2745 -.5298 -.3799

ALPHA(5) = 0.040 BETA(1) = -0.080

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2208 -.2437 -.2843 -.5362 -.2410

ALPHA(5) = 7.980 BETA(2) = -4.070

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2031 -.2406 -.2536 -.4496 -.3986

ALPHA(5) = 7.970 BETA(3) = .020

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.1983 -.2399 -.2321 -.5776 -.4530

ALPHA(5) = 0.080 BETA(4) = 4.130

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2087 -.2437 -.2923 -.4374 -.4372

ARC11-716 1A14 01+T12+SIZE3 FUS+RUOPL BASE (RB1C44)

ALPHAO (5) = 0.000 BETAO (5) = 0.250

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2276 -.2709 -.2741 -.4959 -.2640



ARC11-716 1A14 01-112-512MS

PUS+RUOPL BASE

(RBIC49) (20 FEB 74)

PARAMETRIC DATA

REF = 2.6210 90.FT. YMRP = 29.9600 INCHES
 LREF = 36.7090 INCHES YMRP = .0000 INCHES
 BRP = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAX (1) = -7.670 BETAO (1) = -0.040

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -0.3612 -0.3488 -0.4126 -0.7036 -0.5716

ALPHAX (1) = -7.770 BETAO (2) = -4.010

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -0.3616 -0.3534 -0.3915 -0.6769 -0.6600

ALPHAX (1) = -7.790 BETAO (3) = .040

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -0.2995 -0.3362 -0.3667 -0.6989 -0.6082

ALPHAX (1) = -7.900 BETAO (4) = 4.110

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000
--------	--------	--------	--------	--------	--------

.000 -0.3634 -0.3509 -0.3902 -0.6100 -0.3246

MACH =
 RUDDER =
 .990 ELEVON = .000
 .000 SPDRK = .000

(R81C48)

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FUS+RUPFL BASE

ARC11-716 1A14 01+T12+S12N2

ALPHAO(1) = -7.930 BETAO (2) = 0.190

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3078 -.3476 -.3687 -.6296 -.5441

ALPHAO(2) = -4.020 BETAO (1) = -6.080

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3171 -.3566 -.4003 -.7150 -.5576

ALPHAO(2) = -3.940 BETAO (2) = -4.030

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3090 -.3389 -.3636 -.6671 -.6561

ALPHAO(2) = -3.870 BETAO (3) = .010

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2944 -.3207 -.3286 -.6906 -.6431

ALPHAO(2) = -3.940 BETAO (4) = 4.090

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2923 -.3206 -.3463 -.6296 -.5548

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ORBIT(43)

PUB-RUDPL BASE

ARC11-716 TAI14 OL-T12-S12HES

ALPHAO(2) = -3.990 BETA0 (2) = 0.170

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3083 -.3372 -.3327 -.6820 -.9711

ALPHAO(3) = -.300 BETA0 (1) = -9.100

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3089 -.3232 -.3646 -.7007 -.5362

ALPHAO(3) = -.360 BETA0 (2) = -4.030

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2820 -.3107 -.3544 -.6443 -.6391

ALPHAO(3) = -.330 BETA0 (3) = .040

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2768 -.3067 -.3118 -.6846 -.6367

ALPHAO(3) = -.330 BETA0 (4) = 4.080

SECTION (1)PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2904 -.3077 -.3426 -.6277 -.5039

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(M81C49)

PUS-RUOPT BASE

MFC11-716 1A14 01-112X312M3

ALPHACO1 3) = -.330 BETA0 (3) = 0.100
 SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2093 -.3307 -.3345 -.0719 -.3421
 ALPHACO1 4) = 4.170 BETA0 (1) = -0.100
 SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2096 -.3139 -.3702 -.0044 -.1172
 ALPHACO1 4) = 4.230 BETA0 (2) = -4.030
 SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2382 -.2024 -.3099 -.5799 -.5319
 ALPHACO1 4) = 4.150 BETA0 (3) = .010
 SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2387 -.2713 -.2771 -.0113 -.0249
 ALPHACO1 4) = 4.140 BETA0 (4) = 4.110
 SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2712 -.2917 -.3457 -.0106 -.3674



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ARC11-716 1A14 OUTSIDE-SIDES

PLU-RUPTL BASE

0810C491

ALPHAO1 (1) = 0.130 BETA0 (1) = -0.000
 SECTION (1) PLS. + REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2081 -.0000 -.3322 -.0003 -.7090

ALPHAO2 (2) = 0.130 BETA0 (2) = -4.030
 SECTION (1) PLS. + REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2409 -.2731 -.2036 -.9006 -.4893

ALPHAO3 (3) = 0.140 BETA0 (3) = .040
 SECTION (1) PLS. + REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2404 -.2713 -.2033 -.9122 -.5137

ALPHAO4 (4) = 0.140 BETA0 (4) = 4.130
 SECTION (1) PLS. + REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2758 -.2748 -.3096 -.9048 -.5007

ALPHAO5 (5) = 0.130 BETA0 (5) = 0.270
 SECTION (1) PLS. + REPLACE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2002 -.2045 -.3187 -.6451 -.4133

ARC11-716 1A14 01-112-S12M25 FUS+RUOPL BASE (RBIC46) (15 FEB 74)

REFERENCE DATA

SREF = 2.4210 50.FT. XMRP = 29.5800 INCHES
 LREF = 36.7090 INCHES YMRP = .0000 INCHES
 BREF = 36.7090 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHA(1) = -7.970 BETA(1) = -8.050

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3586 -.3621 -.4588 -.7067 -.6043

ALPHA(1) = -7.960 BETA(2) = -4.027

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3592 -.3606 -.4411 -.6355 -.6264

ALPHA(1) = -7.890 BETA(3) = .030

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3555 -.3579 -.3744 -.6125 -.5675

ALPHA(1) = -7.950 BETA(4) = 4.100

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3491 -.3756 -.4306 -.5922 -.5044

PARAMETRIC DATA

MACH = .975 ELEVON = .000
 RUDDER = .000 SPOBRK = .000



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ARC11-716 1A14 01+712+S12M25 FUS+RLOPL BASE (RB1C46)

ALPHAO(1) = -7.960 BETAO (5) = 6.190

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3451 -.3729 -.3948 -.6699 -.515'

ALPHAO(2) = -3.920 BETAO (1) = -8.060

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3411 -.3264 -.4331 -.7134 -.9875

ALPHAO(2) = -3.920 BETAO (2) = -4.010

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3416 -.3646 -.4125 -.6362 -.6204

ALPHAO(2) = -3.630 BETAO (3) = .020

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3108 -.3460 -.3504 -.6567 -.5961

ALPHAO(2) = -3.970 BETAO (4) = 4.100

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3289 -.3544 -.3906 -.6035 -.5048

ARC11-716 1A14 01+T12+S12E25

FUS+RUOPL BASE

(R81C46)

ALPHA(2) = -3.990 BETA(5) = 8.160

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3304 -.3621 -.3610 -.6715 -.2233

ALPHA(3) = -.300 BETA(1) = -6.100

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3292 -.3472 -.4142 -.7176 -.5666

ALPHA(3) = -.320 BETA(2) = -4.030

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3171 -.3444 -.3652 -.6640 -.6483

ALPHA(3) = -.330 BETA(3) = .040

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3002 -.3236 -.3375 -.6603 -.6279

ALPHA(3) = -.330 BETA(4) = 4.080

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3121 -.3406 -.3916 -.6237 -.5316



(RB1C46)

FUS+RUOFL BASE

ARC11-716 1A14 06+712+S12N25

ALPHAO(3) = -.330 BETAO (9) = 8.160

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3203 -.3332 -.3368 -.6796 -.8243

ALPHAO(4) = 4.100 BETAO (1) = -8.100

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3124 -.3363 -.4018 -.7213 -.5314

ALPHAO(4) = 4.090 BETAO (2) = -4.040

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2960 -.3116 -.3476 -.6471 -.6232

ALPHAO(4) = 4.090 BETAO (3) = .030

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2647 -.3190 -.3085 -.6651 -.6254

ALPHAO(4) = 4.070 BETAO (4) = 4.120

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2963 -.3160 -.3431 -.6350 -.5687

(RB1C46)

FUS+RUOFL BASE

ARC11-716 1A14 01+712+S12N25

ALPHAO(4) = 4.060 BETAO (5) = 6.200

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3101 -.3472 -.3414 -.7092 -.5131

ALPHAO(5) = 6.040 BETAO (1) = -6.060

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2666 -.3116 -.3711 -.7016 -.4394

ALPHAO(5) = 7.920 BETAO (2) = -4.020

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2707 -.2901 -.3132 -.6533 -.3263

ALPHAO(5) = 7.910 BETAO (3) = .060

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2716 -.2935 -.2616 -.6763 -.6125

ALPHAO(5) = 6.040 BETAO (4) = 4.190

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2619 -.3146 -.3579 -.6141 -.5266



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MRC11-716 1A14 01+T12+SIENES PUS+RUOPL BASE (RB1C46)

ALPHAO (5) = 0.030 BETAO (5) = 0.220

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2965 -.3379 -.3426 -.7056 -.4469

ARC11-716 1A14 01+712+S12N25

FUS+RUOPL BASE

(RB1C47) (15 FEB 74)

REFERENCE DATA

SRFP = 2.4210 SQ.FT. XWRP = 29.5600 INCHES
 LREF = 38.7090 INCHES YWRP = .0000 INCHES
 BRFP = 38.7090 INCHES ZWRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAO(1) = -7.960 BETAO (1) = -8.070

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -3.320 -3.633 -4.569 -5.265 -5.5049

ALPHAO(1) = -7.960 BETAO (2) = -4.010

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -3.393 -3.624 -4.206 -5.122 -5.4888

ALPHAO(1) = -7.960 BETAO (3) = .030

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -3.3177 -3.339 -3.724 -4.232 -4.4676

ALPHAO(1) = -7.960 BETAO (4) = 4.120

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -3.3400 -3.366 -4.153 -4.4992 -4.4035

PARAMETRIC DATA

MACH = 1.050 ELEVON = .000
 RUDDER = .000 SPOBRK = .000

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(R81C47)

PUS+RUOPL BASE

ARC11-716 1A14 01-716-512825

ALPHAO(1) = -7.990 BETAO (5) = 0.210

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3445 -0.3765 -0.3625 -0.6218 -0.4070

ALPHAO(2) = -3.620 BETAO (1) = -0.120

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3358 -0.3555 -0.4395 -0.6063 -0.5084

ALPHAO(2) = -3.630 BETAO (2) = -4.020

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3609 -0.3487 -0.5968 -0.5171 -0.5159

ALPHAO(2) = -3.910 BETAO (3) = 0.030

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3014 -0.2799 -0.3442 -0.2618 -0.1736

ALPHAO(2) = -3.910 BETAO (4) = 4.100

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3829 -0.3492 -0.4059 -0.5075 -0.4181

(R81C47)

PUS-RUOPL BASE

ARC11-716 1A14 01+T12+S12H23

ALPHA(2) = -3.920 BETA(3) = 8.160

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3399 -.3642 -.3726 -.0261 -.4162

ALPHA(3) = .060 BETA(1) = -6.130

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3261 -.3472 -.4399 -.6251 -.9237

ALPHA(3) = .000 BETA(2) = -4.060

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3177 -.3366 -.3697 -.5367 -.5426

ALPHA(3) = -.330 BETA(3) = .040

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2996 -.3200 -.3396 -.3264 -.4647

ALPHA(3) = .060 BETA(4) = 4.100

SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3073 -.3345 -.3974 -.5212 -.4190



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(R61C47)

PUS+RUOPL BASE

ARC11-716 1A14 0A+11E+512E5

ALPHA(3) = .070 BETA(9) = 0.100

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3278 -.3566 -.3646 -.6379 -.4278

ALPHA(4) = 4.120 BETA(1) = -6.110

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3234 -.3333 -.4286 -.6232 -.5133

ALPHA(4) = 4.100 BETA(2) = -4.030

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2977 -.3106 -.3379 -.5466 -.5567

ALPHA(4) = 4.100 BETA(3) = .040

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2991 -.3178 -.3378 -.5441 -.5265

ALPHA(4) = 4.090 BETA(4) = 4.130

SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3068 -.3329 -.3771 -.5533 -.4510

ALPHA(4) = 4.080 BETA(5) = 6.230

SECTION (1) PLUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3232 -.3945 -.3731 -.6296 -.4362

ALPHA(5) = 6.090 BETA(1) = -6.090

SECTION (1) PLUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3196 -.3359 -.4211 -.6170 -.4610

ALPHA(5) = 6.030 BETA(2) = -4.040

SECTION (1) PLUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2979 -.3104 -.3286 -.5724 -.5580

ALPHA(5) = 6.030 BETA(3) = .020

SECTION (1) PLUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2954 -.3129 -.3344 -.5610 -.5508

ALPHA(5) = 6.060 BETA(4) = 4.170

SECTION (1) PLUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3047 -.3294 -.3499 -.5985 -.4805



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PUS-RUOPL BASE (R81C47)

ARC11-716 1A14 01-712-SIDERS

ALPHACH 91 = 0.000 BETA0 (91) = 0.200

SECTION (11) PUS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3609 -.3605 -.3793 -.6378 -.4246

(R01C48) (15 FEB 74)

PUSH-ROD PL BASE

PARAMETRIC DATA

MACH = 1.100 ELEVON = .000
RUDDER = .000 SPOBRK = .000

REFERENCE DATA

WRP = 2.4210 50.FT. WRP = 29.9000 INCHES
LWRP = 34.7000 INCHES WRP = .0000 INCHES
WRP = 34.7000 INCHES WRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHAX (1) = -7.930 BETA0 (1) = -8.090

SECTION (1) PUS. + RPLATE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3436 -.3648 -.4771 -.5450 -.4524

ALPHAX (2) = -7.993 BETA0 (2) = -4.020

SECTION (1) PUS. + RPLATE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3391 -.3595 -.4309 -.4769 -.4411

ALPHAX (3) = -7.920 BETA0 (3) = .040

SECTION (1) PUS. + RPLATE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3232 -.3402 -.3646 -.4551 -.3637

ALPHAX (4) = -7.930 BETA0 (4) = 4.090

SECTION (1) PUS. + RPLATE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3456 -.3679 -.4293 -.4409 -.3463



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081C48

PUB-RUDPL BASE

MRC11-716 1A14 CR-TIER-2/8ES

ALPHAO(1) = -7.990 BETAO (3) = 0.290

SECTION (1) PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3917 -.3843 -.3892 -.3937 -.3411

ALPHAO(2) = -3.940 BETAO (1) = -8.110

SECTION (1) PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3348 -.3971 -.4903 -.5159 -.4631

ALPHAO(2) = -3.980 BETAO (2) = -4.020

SECTION (1) PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3293 -.3487 -.4077 -.4800 -.4671

ALPHAO(2) = -3.990 BETAO (3) = 0.090

SECTION (1) PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3087 -.3264 -.3901 -.4175 -.4079

ALPHAO(2) = -3.990 BETAO (4) = 4.130

SECTION (1) PUB. + REPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3330 -.3534 -.4082 -.4782 -.3608

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(RB1C48)

PUS+RUDFL BASE

ARC11-716 1A14 06+712+S12K25

ALPHA(2) = -3.890 BETA(9) = 6.190

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3310 -.3680 -.3792 -.7992 -.3618

ALPHA(3) = -.310 BETA(1) = -8.140

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3327 -.3495 -.4402 -.5726 -.4619

ALPHA(3) = -.330 BETA(2) = -4.040

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3221 -.3404 -.3856 -.4907 -.4932

ALPHA(3) = -.340 BETA(3) = .030

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2978 -.3213 -.3484 -.4615 -.4273

ALPHA(3) = -.340 BETA(4) = 4.110

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3225 -.3449 -.3982 -.4955 -.3676

5/1



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(RBIC48)

FUS+RUOFL BASE

ARC11-716 1A14 01-112+S12M25

ALPHAO(3) = -.340 BETAO (5) = 8.180
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.3298 -.3619 -.3794 -.6047 -.3695

ALPHAO(4) = 4.170 BETAO (1) = -8.250
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.3313 -.3391 -.4204 -.2990 -.5004

ALPHAO(4) = 4.180 BETAO (2) = -4.050
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.3090 -.3279 -.3640 -.5075 -.5136

ALPHAO(4) = 4.170 BETAO (3) = .030
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.2936 -.3188 -.3444 -.4936 -.4610

ALPHAO(4) = 4.170 BETAO (4) = 4.130
SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000
.000 -.3142 -.3378 -.3697 -.5127 -.3948

(RBIC48)

FUS+RUOPL BASE

ARC11-716 1A14 01+112+S12N25

ALPHA(4) = 4.160 BETA(5) = 6.240

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3253 -.3553 -.3669 -.6204 -.4032

ALPHA(5) = 6.130 BETA(1) = -4.040

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3160 -.3253 -.3461 -.5236 -.5279

ALPHA(5) = 6.130 BETA(2) = .040

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3008 -.3173 -.3303 -.5072 -.4733

ALPHA(5) = 6.120 BETA(3) = 4.160

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3075 -.3399 -.3654 -.5213 -.4276

ALPHA(5) = 6.110 BETA(4) = 6.270

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3307 -.3706 -.3629 -.6094 -.4010



PARAMETRIC DATA

MACH = 1.190 ELEVON = .000
RUDDER = .000 SPOBRK = .000

REFERENCE DATA

REF = 2.4210 96.FT. 3MRP = 29.5000 INCHES
LREF = 36.7090 INCHES 1MRP = .0000 INCHES
REF = 36.7090 INCHES 2MRP = .0000 INCHES
SCALE = .03000 SCALE

ALPHAOX (1) = -7.860 BETAO (1) = -0.040

SECTION (1) PLS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3169 -0.3376 -0.4624 -0.4799 -0.3957

ALPHAOX (1) = -7.860 BETAO (2) = -4.000

SECTION (1) PLS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2963 -0.3163 -0.4094 -0.4074 -0.3799

ALPHAOX (1) = -7.860 BETAO (3) = 0.040

SECTION (1) PLS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2969 -0.3203 -0.3771 -0.4037 -0.3326

ALPHAOX (1) = -7.870 BETAO (4) = 4.100

SECTION (1) PLS. + RPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3004 -0.3331 -0.3999 -0.4003 -0.2783

(R81C49)

FUS+RUOPL BASE

ARC11-716 1A14 01+712+S12M25

ALPHAO(1) = -7.690 BETAO (2) = 6.200

SECTION (1) PLUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3307 -0.3646 -0.3685 -0.3236 -0.2791

ALPHAO(2) = -3.930 BETAO (1) = -6.100

SECTION (1) PLUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.3072 -0.3239 -0.4209 -0.4925 -0.4118

ALPHAO(2) = -3.960 BETAO (2) = -4.120

SECTION (1) PLUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2965 -0.3076 -0.3644 -0.4236 -0.4064

ALPHAO(2) = -3.990 BETAO (3) = .030

SECTION (1) PLUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2868 -0.2962 -0.3293 -0.4062 -0.3429

ALPHAO(2) = -3.990 BETAO (4) = 4.000

SECTION (1) PLUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -0.2969 -0.3243 -0.3779 -0.4205 -0.2933

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(RBIC49)

PUS-RUDPL BASE

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ARC11-716 1A14 01-712-512ES

ALPHAO(2) = -3.090 BETAO (5) = 0.100
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3178 -.3980 -.3478 -.5336 -.8269
 ALPHAO(3) = -.310 BETAO (1) = -8.100
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3009 -.3102 -.3979 -.5125 -.4291
 ALPHAO(3) = -.330 BETAO (2) = -4.030
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.8948 -.3014 -.3684 -.4328 -.4362
 ALPHAO(3) = -.340 BETAO (3) = .030
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.8878 -.8917 -.5310 -.4327 -.3794
 ALPHAO(3) = -.340 BETAO (4) = 4.100
 SECTION (1)PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.8933 -.3106 -.3498 -.4458 -.3136

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(RBIC49)

FUS+RUDFL BASE

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ARC11-716 1A14 01-112-512:25

ALPHAO(3) = -.340 BETAO (5) = 6.170
 SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.3082 -.3324 -.3475 -.3570 -.3169
 ALPHAO(4) = 4.130 BETAO (1) = -8.060
 SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2931 -.3097 -.3268 -.3281 -.4477
 ALPHAO(4) = 4.010 BETAO (2) = -4.010
 SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2909 -.2936 -.3306 -.4422 -.4678
 ALPHAO(4) = 4.000 BETAO (3) = .040
 SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2881 -.2890 -.3284 -.4404 -.4094
 ALPHAO(4) = 4.030 BETAO (4) = 4.110
 SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2855 -.3105 -.3586 -.4637 -.3391



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(RBIC49)

FUS-RUDPL BASE

ARC11-716 1A14 OL-712-S12M25

ALPHAO(4) = 4.030 BETAO (5) = 6.210

SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2937 -.3215 -.3291 -.5960 -.3435

ALPHAO(5) = 6.040 BETAO (1) = -6.090

SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2969 -.3124 -.3464 -.5298 -.6210

ALPHAO(5) = 7.970 BETAO (2) = -4.030

SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2946 -.3033 -.3236 -.4698 -.4914

ALPHAO(5) = 6.060 BETAO (3) = .040

SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2764 -.2926 -.3346 -.4689 -.6244

ALPHAO(5) = 6.060 BETAO (4) = 4.140

SECTION (1)PUB. + RPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2937 -.3094 -.3596 -.4664 -.3797

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(R01C49)

FUS-RUDPL BASE

ARC11-716 1A14 01-712-512M23

ALPHA01 S1 = 0.020 BETA0 (S1) = 0.270

SECTION (1) PLS. + RPLAKE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2996 -.3319 -.3442 -.5792 -.3499



PARAMETRIC DATA

MACH = 1.250 ELEVON = .000
RUDDER = .000 SPOBRK = .000

REFERENCE DATA

REF = 2.4210 36. FT. YMRP = 29.2900 INCHES
LREF = 36.7090 INCHES YMRP = .0000 INCHES
BREF = 36.7090 INCHES ZMRP = .0000 INCHES
SCALE = .0000 SCALE

ALPHAO (1) = -0.010 BETAO (1) = -0.000

SECTION (1) PLS. * SPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2500 -.3124 -.4437 -.4000 -.3502

ALPHAO (1) = -0.010 BETAO (2) = -4.000

SECTION (1) PLS. * SPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2803 -.3026 -.3983 -.3303 -.3385

ALPHAO (1) = -0.000 BETAO (3) = .000

SECTION (1) PLS. * SPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2791 -.2973 -.3263 -.3084 -.2907

ALPHAO (1) = -0.010 BETAO (4) = 4.100

SECTION (1) PLS. * SPLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2792 -.3044 -.3445 -.3423 -.2331

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(R81C90)

PUS+RUDPL BASE

ARC11-716 1A14 01-0718-818M23

ALPHAO1 (1) = -0.000 BETA0 (1) = 0.100
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2837 -.3823 -.3323 -.4215 -.1994

ALPHAO2 (1) = -3.900 BETA0 (1) = -0.050
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.0. -.2814 -.3038 -.3938 -.4222 -.3711

ALPHAO3 (1) = -3.900 BETA0 (2) = -4.000
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2810 -.2831 -.3408 -.3506 -.3718

ALPHAO4 (1) = -3.940 BETA0 (3) = .050
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2816 -.2812 -.3173 -.3343 -.3090

ALPHAO5 (1) = -3.940 BETA0 (4) = 4.090
 SECTION (1) PUS. + RPLARE BASE DEPENDENT VARIABLE CP
 TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2708 -.2804 -.2890 -.3296 -.2490



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FRIC(20)

FR-RUDPL BASE

ARC11-716 1A14 CFT-12H-218E1

ALPHAO1 2) = -3.980 BETAO (2) = 0.110

SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2597 -.2608 -.2675 -.4308 -.5199

ALPHAO1 3) = -.340 BETAO (1) = -0.060

SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2646 -.2682 -.2600 -.4348 -.3637

ALPHAO1 3) = -.340 BETAO (2) = -4.000

SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2599 -.2608 -.2644 -.3681 -.2668

ALPHAO1 3) = -.340 BETAO (3) = 0.040

SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2602 -.2700 -.2608 -.2676 -.3339

ALPHAO1 3) = -.340 BETAO (4) = 4.000

SECTION (1)PUB. * SPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2681 -.2673 -.2672 -.3774 -.2616

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PUR-RUCPL BASE (R81C50)

ARC11- P16 1A16 01+112+512MS

ALPHAO1 3) = -.360 BETA0 (3) = 6.120
 SECTION (1)PUB. + REPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.0244 -.3226 -.3213 -.4398 -.2319

ALPHAO1 4) = 4.010 BETA0 (1) = -6.080

SECTION (1)PUB. + REPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2753 -.3024 -.3604 -.4439 -.3949

ALPHAO1 4) = 4.240 BETA0 (2) = -4.030

SECTION (1)PUB. + REPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2398 -.2639 -.3027 -.3605 -.4022

ALPHAO1 4) = 4.080 BETA0 (3) = .040

SECTION (1)PUB. + REPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2438 -.2773 -.2949 -.3173 -.3495

ALPHAO1 4) = 4.020 BETA0 (4) = 4.090

SECTION (1)PUB. + REPLANE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2648 -.2536 -.2500 -.2627 -.2870



(R81C90)

FUS+RUDPL BASE

ARC11-716 1A14 01+712+S12R25

ALPHA(4) = 4.090 BETA(5) = 0.170

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2661 -.3170 -.2964 -.4673 -.2652

ALPHA(5) = 0.090 BETA(1) = -0.050

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2606 -.3093 -.3464 -.4561 -.4063

ALPHA(5) = 0.000 BETA(2) = -3.960

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2667 -.2648 -.2691 -.4035 -.4167

ALPHA(5) = 7.910 BETA(3) = .040

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2330 -.2617 -.2721 -.3636 -.3910

ALPHA(5) = 0.000 BETA(4) = 4.130

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2666 -.2902 -.3008 -.4125 -.3112

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(R81C50)

FUS-RUOFL BASE

ARC11-716 1A14 01-T12+S12M23

ALPHA(5) = 7.980 BETA(5) = 8.220

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2907 -.3255 -.3043 -.4848 -.2763



(RB1CS1) (15 FEB 74)

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MRC11-716 1A14 01-T12-S12N25 FUS-RUOPL BASE

PARAMETRIC DATA

MACH = 1.400 ELEVON = .000
RUDDER = .000 SPOBRK = .000

REFERENCE DATA

SREF = 2.4210 50.FT. YMRP = 29.5800 INCHES
LREF = 36.7090 INCHES YMRP = .0000 INCHES
SREF = 36.7090 INCHES YMRP = .0000 INCHES
SCALE = .0500 SCALE

ALPHA(1) = -7.890 BETA(1) = -8.050

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2685 -2.2935 -2.4137 -2.2649 -2.2416

ALPHA(1) = -7.890 BETA(2) = -4.010

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2685 -2.2891 -2.4023 -2.2348 -2.2429

ALPHA(1) = -7.870 BETA(3) = .020

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2366 -2.2737 -2.3484 -2.1875 .1739

ALPHA(1) = -7.970 BETA(4) = 4.110

SECTION (1) PUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2735 -2.3046 -2.3562 -2.2201 -2.1106

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OF POOR QUALITY

AKC11-716 1A14 01+T12+S12K25

FUS+RUOFL BASE

(RB1C91)

ALPHAO(1) = -7.990 BETAO (5) = 6.180

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.795 -.3044 -.3232 -.3014 -.1130

ALPHAO(2) = -3.960 BETAO (1) = -8.060

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.625 -.2797 -.3696 -.2768 -.2563

ALPHAO(2) = -3.990 BETAO (2) = -4.030

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.601 -.2814 -.3646 -.2462 -.2628

ALPHAO(2) = -3.850 BETAO (3) = .040

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.265 -.2365 -.3075 -.2130 -.2011

ALPHAO(2) = -3.970 BETAO (4) = 4.090

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.668 -.3004 -.3596 -.2490 -.1344



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(RB1C51)

FUS-RUCOPL BASE

ARC11-716 1A14 06+712+912M25

ALPHA(2) = -4.000 BETA(5) = 0.150

SECTION (1) PLS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.753 -3.042 -3.104 -3.196 -.1334

ALPHA(3) = -.370 BETA(1) = -8.100

SECTION (1) PLS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2617 -2.2680 -3.3603 -3.3024 -.2725

ALPHA(3) = -.390 BETA(2) = -4.010

SECTION (1) PLS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2604 -2.2623 -3.3463 -2.2615 -.2623

ALPHA(3) = -.390 BETA(3) = .050

SECTION (1) PLS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2599 -2.2619 -2.2930 -2.2533 -.2278

ALPHA(3) = -.400 BETA(4) = 4.090

SECTION (1) PLS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -2.2690 -2.2667 -3.3130 -2.2620 -.1477

IRBIC911

FUS+RUOPL BASE

ARC11-716 1A14 01+T12+S12R5

ALPHAO(3) = -.400 BETAO (3) = 0.140

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2998 -.3020 -.3036 -.3323 -.1431

ALPHAO(4) = 4.110 BETAO (1) = -0.070

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2998 -.2922 -.3508 -.3191 -.2861

ALPHAO(4) = 4.100 BETAO (2) = -3.960

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2978 -.2855 -.3156 -.2752 -.2976

ALPHAO(4) = 4.100 BETAO (3) = .060

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2402 -.2887 -.2884 -.2879 -.2640

ALPHAO(4) = 4.100 BETAO (4) = 4.130

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2483 -.2902 -.3113 -.2992 -.2057



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(RBIC91)

FUS+RUOFL BASE

ARC11-716 1A14 0A-112+512MS

ALPHAO(4) = 4.090 BETAO (5) = 6.180

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2667 -.2665 -.3013 -.3556 -.1650

ALPHAO(5) = 6.010 BETAO (1) = -6.050

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2754 -.2951 -.3127 -.3335 -.2928

ALPHAO(5) = 6.010 BETAO (2) = -4.010

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2661 -.2678 -.2756 -.2999 -.3050

ALPHAO(5) = 6.020 BETAO (3) = .030

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2320 -.2675 -.2666 -.2955 -.2874

ALPHAO(5) = 6.010 BETAO (4) = 4.150

SECTION (1)FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2671 -.2623 -.2930 -.3196 -.2195

(EB1C51)

FUS+RUOPL BASE

ARC11-716 1A14 01-T12-S12N25

ALPHAO (5) = 7.990 BETAO (5) = 6.280

SECTION (1) FUS. + RFLARE BASE DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000

.000 -.2784 -.3095 -.3075 -.3685 -.1769

